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# Integrated Resource Inventory


INTEGRATED RESOURCE INVENTORY  
OF DEEP BASIN STUDY AREA (NTS 83L)  
VOLUME II

**Alberta**  
ENERGY AND  
NATURAL RESOURCES  
Resource Evaluation  
and Planning





INTEGRATED RESOURCE INVENTORY  
OF DEEP BASIN STUDY AREA (NTS 83L)  
VOLUME II



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INTEGRATED RESOURCE INVENTORY OF THE  
DEEP BASIN AREA (NTS 83L)

VOLUME II  
VEGETATION CLASSIFICATION

1984  
Edmonton

Alberta Energy and Natural Resources  
Resource Inventory and Appraisal  
Resource Evaluation and Planning Division

**Volume II - Plant Associations**

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## 1. INTRODUCTION

This volume of the report deals with the vegetative (Forage Inventory) component of the Integrated Resource Inventory of the Deep Basin study area. The emphasis is on the detailed description of plant associations. These are organized by ecoregion and discussed in terms of their environmental relationships within the ecoregion concept.

### 1.1 Purpose

The purpose of the vegetation inventory is to classify plant communities into relatively discrete groups; plant associations and ecoregions, which indicate sets of environmental and climatic parameters. This classification can be used by resource managers who are interested in the biotic potential of the landscape and who require an understanding of the vegetation interactions to make resource decisions.

To accomplish these objectives data on species composition, cover, vigor, successional status, soils and related environmental factors are collected and analyzed as described below.

### 1.2 Methods

#### 1.2.1 Field Sampling

Prior to field sampling, background information from previous resource inventory studies was collected and analyzed to provide a preliminary vegetation stratification of the study area. This includes physical land data from the Land Classification Section, ecological land classification data from the Resource Appraisal Section, Soil Survey

(Twardy and Corns, 1980) and forest cover data from the Phase III Forest Inventory Group. Representative field plots were subsequently established within each forest cover type to determine the plant communities as they relate to different site conditions. The locations of the plots were determined from aerial photographs and coincided with soil observations where possible.

At each site, a 20 x 20 m plot was established to determine the tree species composition, percent cover and vigor. A 5 x 5 m plot was used to inventory the shrub layer and a 20 m transect with five 1 x 0.5 m plots was employed to determine forb, grass, moss, and lichen species cover. The plant species were listed according to the following vegetation layers:

- A<sub>1</sub> - dominant tree including main canopy
- A<sub>2</sub> - understory trees over 5.0 m tall
- E - epiphytes
- B<sub>1</sub> - tall shrub and tree regeneration - 2.5 to 5.0 m tall
- B<sub>2</sub> - low shrubs and tree regeneration less than 2.5 m tall
- C - forb species
- G - graminoids - grass and grass-like
- D - mosses
- L - lichen

Other site information collected includes: elevation, slope gradient, aspect, exposure, shape of slope, microrelief, soils, parent materials, ecological moisture regime, ecological nutrient regime, drainage conditions, flood hazard, site disturbance, surface substrate

age and height of the forest stand and general comments about the site.

#### 1.2.2 Data Analysis

The plot data was grouped by species composition, that is, plots having similar species presence and cover values, to define plant associations.

The analysis of the data was conducted using the Klinka-Phelps Vegetation Program and the Environmental Site Program. A detailed description of the programs and the actual tables are given in Appendix B.

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## 2. PLANT ASSOCIATIONS AND ECOREGIONS

There are 44 plant associations recognized in the six ecoregions within the Deep Basin study area. The ecoregions are based on the broad concepts presented in Ecoregions of Alberta (Strong and Leggat, 1981) with revisions made possible by more intensive fieldwork and the inclusion of characteristic plant associations on modal sites as definitional criteria. The ecoregion lines are presented on the Ecological Land Classification maps accompanying this report.

The plant associations are distributed among ecoregions as follows:

Boreal Mixedwood	- 13
Boreal Foothills	- 8
Boreal Uplands	- 11
Subalpine	- 10
Alpine	- not differentiated
Montane	- 2

The distinguishing features of each ecoregion, its characteristic plant associations and a discussion of interrelationships follows below with detailed vegetation tables and environmental tables for each association given in Appendix D.

### 2.1 Boreal Mixedwood

The Boreal Mixedwood Ecoregion (Ecoregion 8, Strong and Leggat) occurs in the northern portion of the study area (Figure 2, Vol. 1) at lower elevations than the Boreal Foothills Ecoregion (below approximately 860 m asl).

The climate of this ecoregion is continental. More than 70% of yearly precipitation is received during the summer months with July being the wettest month. Winter temperatures are colder than other ecoregions in the study area with chinooks not as important to the winter climate. Specific climatic parameters for stations with each study area are shown in Appendix E.

The topography of the area is level to undulating. Glaciolacustrine materials dominate as this is a former glacial lake basin.

Aspen dominates the forest vegetation on moderately well-drained modal sites with luvisolic soils in this ecoregion. Understory vegetation typically consists of a well developed deciduous shrub layer of rose and low-bush cranberry and a variety of herbaceous plants and grasses. The moss layer is usually sparse. Secondary succession is by white spruce, although a high frequency of fires has slowed its establishment over large portions of the ecoregion in the study area. Invasion by spruce will be slow due to lack of an adequate seed source in many areas. As aspen stands succeed to white spruce the shrub and herb layers tend to decrease in cover while the moss layer increases.

Balsam poplar occurs on imperfectly drained sites with gleyed luvisolic and gleysolic soils. Aspen and white spruce are often a component of these stands. Understory vegetation is generally more lush than on modal sites with the presence of bracted honeysuckle and red osier dogwood reflecting higher moisture availability. Succession to white spruce would be expected to be faster on these moisture sites but

vegetation competition from shrub and herb layers slows seedling establishment.

Lodgepole pine is restricted to dry sites with coarse textured eolian and glaciofluvial materials. Shrub and forb layers are generally poorly developed on these sites with lichens commonly occurring. Soils are dominantly Eluviated Eutric Brunisols, with some Brunisolic Gray Luvisols.

Poorly drained areas support black spruce and tamarack wetlands with some sedge meadows and open shrubland occurring depending on local drainage conditions. Gleysols and organic soils are common at these sites.

There are 13 associations described for the Boreal Mixedwood in this study. Of these, three represent near modal conditions, four occur on imperfectly drained soils, two are wetland associations and four occur under rapidly to well drained conditions.

The upper elevation of the Boreal Mixedwood Ecoregion in this study area is approximately 860 m. Below this elevation lodgepole pine ceases to be a component of aspen stands on model sites. The dry mixedwood subregion of the ecoregion was identified by Strong and Leggat in the northern portion of the study at lower elevations. There were no vegetation differences observed in this study to substantiate this split; however, further study is required to verify its occurrence.

2.1.1 Trembling Aspen/Low-bush Cranberry/Dewberry  
(Populus tremuloides/Viburnum edule/Rubus pubescens)

Site Characteristics

Moisture regime	:	Submesic to subhygric
Nutrient regime	:	Submesotrophic to permesotrophic
Slope	:	0-9
Aspect	:	Variable
Elevation	:	650 - 825
Number of plots	:	27

Soil Characteristics

Parent material	:	GL, M, GF, E
Texture (B horizon)	:	Fine to coarse textured
Drainage	:	Well to moderately well
pH (B horizon)	:	6.0 (4-8)
Soils	:	0.GL, GLSZ.GL, GL.GL, BR.GL, E.EB, E.OYB

This association is wide-spread over a large portion of the Mixedwood Ecoregion in the study area on level to very gently sloping topography. It represents the modal site conditions for the ecoregion although it occurs on a relatively wide range of parent materials. Because slopes are low, aspect does not have a significant influence on vegetation composition. Well to moderately well drained, medium to fine textured soils are typical. The dominant parent material is glaciolacustrine or glaciolacustrine overlain by thin veneers of eolian or glaciofluvial materials.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
Shrub	<b>Rosa acicularis</b>	Prickly rose
	<b>Viburnum edule</b>	Low-bush cranberry
	<b>Lonicera involucrata</b>	Bracted honeysuckle

<u>Layer</u>	<u>Species</u>	
Forb	<b>Lathyrus ochroleucus</b>	Peavine
	<b>Rubus pubescens</b>	Dewberry
	<b>Cornus canadensis</b>	Bunchberry
	<b>Fragaria virginiana</b>	Strawberry
	<b>Aster conspicuus</b>	Showy aster
	<b>Maianthemum canadense</b>	Wild lily-of-the valley
	<b>Galium boreale</b>	Bedstraw
	<b>Epilobium angustifolium</b>	Fireweed
	<b>Pyrola asarifolia</b>	Pink wintergreen
	<b>Petasites palmatus</b>	Coltsfoot
	<b>Linnaea borealis</b>	Twinflower

Trembling aspen dominates the tree layer in this association with significant components of balsam poplar and white spruce also present. White spruce is often present as regeneration and it would form the overstory in climax stands on these sites. The shrub layer generally has high cover and consists primarily of rose and low-bush cranberry with bracted honeysuckle commonly occurring. The forb layer is also well developed with a variety of species present. Grass cover is moderate with hairy wild rye and Calamagrostis spp. occurring regularly. The heavy shrub and forb layer and the presence of deciduous leaf litter restricts development of the moss layer.

#### 2.1.2 Trembling Aspen/Prickly Rose/Peavine (Populus tremuloides/Rosa acicularis/Lathyrus ochroleucus)

##### Site Characteristics

Moisture regime	:	Mesic to subxeric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-10
Aspect	:	Variable
Elevation	:	660-970
Number of plots	:	6

### Soil Characteristics

Parent material : E, GF  
Texture (B horizon): Moderately fine to coarse  
Drainage : Well to rapid  
pH (B horizon) : 6.7 (6-8)  
Soils : E.EB, BR.GL, O.EB, PZ.GL

This association has limited occurrence in the study area as it is restricted to drier sites with coarse-textured soils. Submesic to subxeric moisture regimes and well to rapidly drained soils are dominant. The topography ranges from level to moderately sloping although most sites occur on level topography. This association indicates drier site conditions than the Trembling Aspen/Low-bush Cranberry/Dewberry association (Section 2.1.1).

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
Shrub	<b>Rosa acicularis</b>	Prickly rose
	<b>Spiraea betufoia</b>	White meadowsweet
Forb	<b>Lathyrus ochroleucus</b>	Peavine
	<b>Maianthemum canadensis</b>	Wild lily-of-the valley
	<b>Epilobium angustifolium</b>	Fireweed
	<b>Cornus canadensis</b>	Bunchberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Aster conspicuus</b>	Showy aster
	<b>Pyrola asarifolia</b>	Pink wintergreen
	<b>Aralia nudicaulus</b>	Wild sarsaparilla
	<b>Orthilia secunda</b>	One sided wintergreen
Grasses	<b>Elymus innovatus</b>	Hairy wild rye

Trembling aspen dominates the tree layer in this association, however, white spruce and lodgepole pine may form a significant component

of the overstory. The presence of lodgepole pine indicates the drier site conditions occurring here. Rose and white meadowsweet dominate the moderately developed shrub layer. Low-bush cranberry and bracted honeysuckle cover is low while saskatoon and buffalo-berry are more common, indicating drier site conditions. The forb layer is well-developed, however, species reflecting a dry environment have greater cover than in the Aspen/Low-bush Cranberry/Dewberry association. Grasses, particularly hairy wild rye, are more prevalent. The moss layer is very poorly developed in this association.

#### 2.1.3 Trembling Aspen-Balsam Poplar/Bracted Honeysuckle/Dewberry (Populus tremuloides/Lonicera involucrata/Rubus pubescens)

##### Site Characteristics

Moisture regime	: Subhygric to subhydric
Nutrient regime	: Mesotrophic to permesotrophic
Slope	: 0-7
Aspect	: Variable
Elevation	: 640-840
Number of plots	: 12

##### Soil Characteristics

Parent material	: GL, GF, M, E, F
Texture (B horizon):	Moderately fine to coarse
Drainage	: Imperfect to moderately well
pH (B horizon)	: 7.3 (5-8)
Soils	: O.LG, O.HG, GLBR.GL, GL.EB, O.EB, GL.GL, O.GL

This association is relatively wide-spread in the area on level to gently sloping topography. Imperfect drainage conditions predominate and soils are usually either gleysols or gleyed phases of the luvisolic and brunisolic order. Parent materials and textures are variable, however, the overriding factor responsible for species composition is imperfect soil drainage and abundant soil moisture.

This association is relatively wide-spread in the area on level to gently sloping topography. Imperfect drainage conditions predominate and soils are usually either gleysols or gleyed phases of the luvisolic and brunisolic order. Parent materials and textures are variable, however, the overriding factor responsible for species composition is imperfect soil drainage and abundant soil moisture.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b> <b>Populus balsamifera</b>	Trembling aspen Balsam poplar
Shrub	<b>Viburnum edule</b> <b>Lonicera involucrata</b> <b>Rosa acicularis</b> <b>Cornus stolonifera</b>	Low-bush cranberry Bracted honeysuckle Prickly rose Red-osier dogwood
Forb	<b>Rubus pubescens</b> <b>Aralia nudicaulis</b> <b>Cornus canadensis</b>	Dewberry Wild sarsaparilla Bunchberry

Trembling aspen and balsam poplar share dominance in the tree overstory occurring in this association. The presence of balsam poplar in significant amounts is indicative of the increased soil moisture present. Low-bush cranberry, bracted honeysuckle, rose and red osier dogwood share dominance in the well developed shrub layer. Bracted honeysuckle and red osier dogwood are indicators of moist site conditions. The forb layer is well-developed with the overall species composition reflecting the moisture status. White spruce is sporadically present as regeneration and would be expected to form the climax community on these sites. While the moist sites favor the growth of spruce, the heavy shrub and forb layers provide severe competition for

white spruce seedlings which will likely slow successional rates to a significant degree.

2.1.4 Trembling Aspen/Beaked Hazelnut/Wild Sarsaparilla  
(Populus tremuloides/Corylus cornuta/Aralia nudicaulis)

Site Characteristics

Moisture regime	:	Mesic to submesic
Nutrient regime	:	Submesotrophic to permesotrophic
Slope	:	0-6
Aspect	:	Variable
Elevation	:	540-690
Number of plots	:	4

Soil Characteristics

Parent materials	:	GF, F
Texture (B horizon)	:	Moderately fine to coarse
Drainage	:	Well to moderately well
pH (B horizon)	:	7.0
Soils	:	E.EB, CU.R, O.GL

This association occurs to a limited extent in the study area at the lower elevations of the Mixedwood Ecoregion. Its distribution appears to be limited to river valley locations on glaciofluvial and fluvial terraces with well drained conditions. The combination of slightly drier than normal site conditions for the Mixedwood region, and the warmer, lower elevation, river valley locations may be responsible for the development of this association.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
	<b>Picea glauca</b>	White spruce

<u>Layer</u>	<u>Species</u>	
Shrub	<i>Corylus cornuta</i>	Beaked hazelnut
	<i>Rosa acicularis</i>	Prickly rose
	<i>Amelanchier alnifolia</i>	Saskatoon
	<i>Viburnum edule</i>	Low-bush cranberry
	<i>Prunus virginiana</i>	Choke cherry
	<i>Symphoricarpos albus</i>	Snowberry
Forb	<i>Aralia nudicaulis</i>	Wild sarsaparilla
	<i>Cornus canadensis</i>	Bunchberry
	<i>Rubus pubescens</i>	Dewberry
	<i>Linnaea borealis</i>	Twinflower
	<i>Maianthemum canadense</i>	Wild lily-of-the-valley
	<i>Galium boreale</i>	Bedstraw
	<i>Lathyrus ochroleucus</i>	Peavine
	<i>Mertensia paniculata</i>	Tall mertensia
	<i>Petasites palmatus</i>	Coltsfoot
Grass	<i>Elymus innovatus</i>	Hairy wild rye

Trembling aspen is dominant in the tree layer with white spruce and balsam poplar occurring sporadically. White spruce is occasionally found as regeneration indicating eventual succession to this species. The shrub layer is generally heavy with beaked hazelnut, rose and saskatoon being dominant which would indicate drier site conditions than is common for this portion of the mixedwood. Wild sarsaparilla dominates the well-developed forb layer with a variety of other species also occurring. The grass layer is poorly developed and the moss layer is almost non-existent. The overall combination of species in this association indicate that warmer, drier conditions are present at these sites.

### 2.1.5 Trembling Aspen/Thimbleberry/Wild Sarsaparilla (Populus tremuloides/Rubus parviflorus/Aralia nudicaulis)

#### Site Characteristics

Moisture regime : Mesic to subhygric  
 Nutrient regime : Mesotrophic and permesotrophic  
 Slope : 2-16  
 Aspect : Variable  
 Elevation : 765-900  
 Number of plots : 5

#### Soil Characteristics

Parent material : GF, M, GL, E  
 Texture (B horizon): Moderately fine to coarse  
 Drainage : Moderately well to well  
 pH (B horizon) : 6.4 (6-7)  
 Soils : BR.GL, E.EB

This association has limited distribution in the study area on nearly level to moderate slopes with variable parent materials. Textures vary from coarse to moderately fine in the B horizon, however, there is often a change in texture, from coarse to fine, within the soil profile that acts as a restricting layer along which seepage water flows. Soils are predominantly moderately well to well drained and nutrient regimes are mesotrophic to permesotrophic. Seepage is expected to occur at these sites in periods of heavy rainfall, however it would be short-lived in duration.

#### Characteristic Species

<u>Layer</u>	<u>Shrub</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
Shrub	<b>Rubus parviflorus</b>	Thimbleberry
	<b>Viburnum edule</b>	Low-bush cranberry
	<b>Rosa acicularis</b>	Prickly rose
	<b>Spiraea betulifolia</b>	White meadowsweet

<u>Layer</u>	<u>Species</u>	
Forbs	<b>Aralia nudicaulis</b>	Wild sarsaparilla
	<b>Epilobium angustifolium</b>	Fireweed
	<b>Aster conspicuus</b>	Showy aster
	<b>Lathyrus ochroleucus</b>	Peavine
	<b>Smilacina racemosa</b>	False Solomon's- seal
	<b>Cornus canadensis</b>	Bunchberry
	<b>Rubus pubescens</b>	Dewberry
	<b>Mertensia paniculata</b>	Tall mertensia
	<b>Maianthemum canadense</b>	Wild lily-of-the valley
Grass	<b>Calamagrostis stricta</b>	Northern reed grass

Trembling aspen is dominant in the overstory of this association, however, balsam poplar often forms a significant component. The shrub layer is very well-developed with thimbleberry dominating. Alder occurs sporadically indicating that seepage conditions are present. The forb layer is also very heavy and consists of species that indicate nutrient-rich conditions. The grass and moss layers are generally poorly developed.

This association extends to some degree into the lower portions of the Boreal Foothills, probably as a result of the moisture associated with the foothills topography.

#### 2.1.6 Lodgepole Pine/Blueberry/Lichen (Pinus contorta/Vaccinium myrtilloides/Cladonia spp).

##### Site Characteristics

Moisture regime	:	Xeric to subxeric
Nutrient regime	:	Submesotrophic to oligotrophic
Slope	:	0-5
Aspect	:	Variable
Elevation	:	880
Number of plots	:	6

### Soil Characteristics

Parent materials : E, GF  
Texture (B horizon): Coarse  
Drainage : Well to rapidly  
pH (B horizon) : 5.6 (5-6)  
Soils : E.EB, E.DYB

This association has limited occurrence mainly on eolian deposits in the study area. Slopes vary from level to gentle. The association represents xeric conditions with rapidly drained soils and poor nutrient status due to the coarse parent materials.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Vaccinium myrtilloides</b>	Blueberry
	<b>Rosa acicularis</b>	Prickly rose
Forb	<b>Vaccinium vitis-idaea</b>	Bog cranberry
	<b>Maianthemum canadense</b>	Wild lily-of-the valley
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
Lichen	<b>Cladina mitis</b>	Reindeer moss

Lodgepole pine is dominant in the open tree layer. Aspen and white spruce occur occasionally, however, lodgepole pine is expected to remain dominant over time as this association can be considered an edaphic climax. The shrub and forb layers have low cover due to the xeric conditions present at these sites. **Vaccinium** species and bearberry are present in these layers indicating the dry, acidic environment. The moss layer has very low cover in this association while the lichen layer is better developed than in other associations.

2.1.7 Lodgepole Pine/Feathermoss  
(*Pinus contorta*/*Pleurozium schreberi*)

Site Characteristics

Moisture regime : Subxeric to submesic  
 Nutrient regime : Submesotrophic to mesotrophic  
 Slope : 0  
 Aspect :  
 Elevation : 805-845  
 Number of plots : 7

Soil Characteristics

Parent material : GF, E, F  
 Texture (B horizon): Coarse to moderately fine  
 Drainage : Well to rapid  
 pH (B horizon) : 5.0-7.0-  
 Soils : E.EB, BR.GL, PZ.GL

This association occurs to a limited extent in the study area on well to rapidly drained level glaciofluvial deposits. Moisture regimes are usually subxeric and nutrient regimes submesotrophic, with mesotrophic conditions occurring on the finer textured materials. Soil moisture holding capacity is somewhat greater on sites supporting this association than on sites supporting the Pine/Blueberry/Lichen association due to generally finer soil textures.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Vaccinium myrtilloides</i></b>	Blueberry
	<b><i>Rosa acicularis</i></b>	Prickly rose
	<b><i>Ledum groenlandicum</i></b>	Labrador tea
Forb	<b><i>Linnaea borealis</i></b>	Twinflower
	<b><i>Cornus canadensis</i></b>	Bunchberry
	<b><i>Vaccinium vitis-idaea</i></b>	Bog cranberry

<u>Layer</u>	<u>Species</u>	
Grass	<b>Elymus innovatus</b>	Hairy wild rye
Moss	<b>Pleurozium schreberi</b> <b>Hylocomium splendens</b> <b>Ptilium crista-</b> <b>castrensis</b>	Schreber's moss Stair-step moss Knights plume moss
Lichen	<b>Peltigera aphthosa</b>	Studded-leather lichen

Lodgepole pine dominates the tree canopy in this association with trembling aspen, black spruce and white spruce occurring sporadically. Black spruce is relatively common as regeneration in this association indicating probable succession toward this species. The shrub layer is moderate with ericaceous shrubs dominating. Buffalo-berry is present with high cover at some of the sites. The forb layer has low species diversity and cover as has the grass layer. The moss layer is generally well developed with feathermosses dominating.

The species composition of this association reflects the dry nature of the sites where it occurs. However, the shrub, forb and moss layers are better developed than the Lodgepole Pine/Blueberry/Lichen association previously discussed.

#### 2.1.8 Lodgepole Pine/Low-bush Cranberry/Wild Sarsaparilla (Pinus contorta/Viburnum edule/Aralia nudicaulis)

##### Site Characteristics

Moisture regime	:	Mesic to submesic
Nutrient regime	:	Submesotrophic to mesotrophic
Slope	:	4-12
Aspect	:	Northerly
Elevation	:	780-820
Number of plots	:	3

## Soil Characteristics

Parent material : E, F  
Texture (B horizon): Moderately fine to coarse  
Drainage : Well  
pH (B horizon) : 6.3 (6-7)  
Soils : E.EB, BR.GL

This association is found to a limited extent in the study area on very gentle to moderate slopes. Parent materials are eolian veneers over glaciofluvial deposits and fluvial deposits. Moisture regimes are slightly more mesic than the Pine/Feathermoss or Pine/Blueberry/Lichen association as the soils are somewhat finer textured and sites are generally north-facing. These sites may also be receiving some seepage water from upslope as they occur in mid-slope positions.

## Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Viburnum edule</i></b>	Low-bush cranberry
	<b><i>Rosa acicularis</i></b>	Prickly rose
	<b><i>Spiraea betulifolia</i></b>	White meadowsweet
	<b><i>Picea glauca</i></b>	White spruce
Forb	<b><i>Aralia nudicaulis</i></b>	Wild sarsaparilla
	<b><i>Cornus canadensis</i></b>	Bunchberry
	<b><i>Linnaea borealis</i></b>	Twinflower
	<b><i>Maianthemum canadense</i></b>	Wild lily-of-the-valley
	<b><i>Pyrola asarifolia</i></b>	Pink wintergreen
	<b><i>Galium triflorus</i></b>	Sweet-scented bedstraw
	<b><i>Viola renifolia</i></b>	Kidney-leaved violet
Moss	<b><i>Pleurozium schreberi</i></b>	Schreber's moss
	<b><i>Hylocomium splendens</i></b>	Stair-step moss
	<b><i>Ptilium crista-castrensis</i></b>	Knights plume moss

Lodgepole pine dominates the tree layer in this association with white spruce and trembling aspen commonly occurring. White spruce regeneration is often present indicating succession toward stands dominated by this species. The shrub layer is well-developed with low-bush cranberry, prickly rose and white meadowsweet dominating. White birch, alpine fir and wild red raspberry are often present as well in the shrub layer. The forb layer is moderately well developed with a variety of species occurring. The moss layer is relatively light possibly as a result of dry surface layers in the soil profile.

This association represents a transition from the aspen associations to the pine associations in the Mixedwood Ecoregion. The understory vegetation more closely resembles that of aspen communities than pine communities while the presence of lodgepole pine indicates somewhat drier than mesic conditions.

2.1.9 Black Spruce-Lodgepole Pine/Labrador Tea/Feathermoss  
(*Picea mariana*-*Pinus contorta*/*Ledum groenlandicum*/  
*Pleurozium schreberi* )

Site Characteristics

Moisture regime	: Subhygric
Nutrient regime	: Submesotrophic
Slope	: 0-5
Aspect	: Variable
Elevation	: 805-850
Number of plots	: 7

Soil Characteristics

Parent material	: GF, E, M
Texture (B horizon)	: Fine to coarse
Drainage	: Moderately well to imperfect
pH (B horizon)	: 6.4 (5-7)
Soils	: GLBR.GL, BR.GL, O.LG, GL.EB, GL.GL

This association occurs to a limited extent on level to very gently sloping topography in lower slope positions in the Boreal Mixedwood. Subhygric moisture conditions and moderately well to imperfect drainage conditions are characteristic. The soils often have finer textured lower horizons which impede percolation of water and compensate for the coarse texture often found in the upper horizons. Seepage is often present as well. The soils are generally gleyed phases of luvisolic soils or gleysols.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea mariana</i>	Black spruce
	<i>Pinus contorta</i>	Lodgepole pine
Shrub	<i>Ledum groenlandicum</i>	Labrador tea
	<i>Picea mariana</i>	Black spruce
	<i>Vaccinium myrtilloides</i>	Blueberry
	<i>Rosa acicularis</i>	Prickly rose
	<i>Lonicera involucrata</i>	Bracted honeysuckle
Forb	<i>Cornus canadensis</i>	Bunchberry
	<i>Linnaea borealis</i>	Twinflower
	<i>Vaccinium vitis-idaea</i>	Bog cranberry
Moss	<i>Pleurozium schreberi</i>	Schreber's moss
	<i>Hylocomium splendens</i>	Stair-step moss
	<i>Ptilium crista-castrensis</i>	Knight's plume moss

This association is characterized by moderately well stocked stands of black spruce and lodgepole pine. The shrub layer is variable in cover (well to poorly developed); labrador tea is the most abundant constant species. Bunchberry, twinflower and bog cranberry are constant species with low cover in the forb layer which in general exhibits low cover values. Grasses and graminoids are present but with low constancy

and very low coverage. The moss layer is well-developed and feathermosses are dominant. The plant species occurring in this association are generally associated with acidic, moist habitats.

Stands belonging to this association are relatively young (45-87 years). Black spruce regeneration is good and pine regeneration is very poor, indicating that in the absence of fire or other disturbance nearly pure stands of black spruce may develop.

2.1.10 White Spruce/Bracted Honeysuckle/Dewberry  
(*Picea glauca*/*Lonicera involucrata*/*Rubus pubescens*)

Site Characteristics

Moisture regime	: Hygric to mesic
Nutrient regime	: Mesotrophic to permesotrophic
Slope	: 0-5
Aspect	: Northerly
Elevation	: 695-805
Number of plots	: 5

Soil Characteristics

Parent material	: GF, M, F
Texture (B horizon):	Moderately fine to fine
Drainage	: Imperfect
pH (B horizon)	: 5.6 (5-7)
Soils	: O.LG, GL.GL, GLBR.GL, E.EB

This association occurs sporadically in the study area on level to gently sloping topography. Imperfect drainage conditions and subhygric moisture regimes are most common. Soils are generally gleysols or gleyed phases of luvisolic soils. The association can be found on a variety of parent materials, however, the moisture and nutrient regimes are the overriding factors controlling its distribution.

## Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea glauca</i>	White spruce
	<i>Populus tremuloides</i>	Trembling aspen
Shrub	<i>Lonicera involucrata</i>	Bracted honeysuckle
	<i>Viburnum edule</i>	Low-bush cranberry
	<i>Rosa acicularis</i>	Prickly rose
Forb	<i>Cornus canadensis</i>	Bunchberry
	<i>Rubus pubescens</i>	Dewberry
	<i>Mitella nuda</i>	Bishop's cap
	<i>Linnaea boealis</i>	Twinflower
Moss	<i>Ptilium crista-castrensis</i>	Knight's plume moss
	<i>Pleurozium schreberi</i>	Schreber's moss
	<i>Hylocomium splendens</i>	Stair-step moss

White spruce dominates the tree layer with trembling aspen and balsam or alpine fir commonly occurring. Regeneration is by white spruce and balsam or alpine fir indicating future succession to these species. The shrub layer generally has low cover and the species composition reflects the moist site conditions (for example, bracted honeysuckle as a dominant shrub reflects abundant soil moisture). The forb layer has moderate cover as does the moss layer.

### 2.1.11 Black Spruce/Labrador Tea/Feathermoss (*Picea mariana*/*Ledum groenlandicum*/*Pleurozium schreberi*)

#### Site Characteristics

Moisture regime	:	Subhydric to hygric
Nutrient regime	:	Submesotrophic to mesotrophic
Slope	:	0-1
Aspect	:	
Elevation	:	695-850
Number of plots	:	6

### Soil Characteristics

Parent material : O, GL  
Texture (B horizon): Moderately fine to fine  
Drainage : Imperfect to very poor  
pH (C horizon) : 7.0 (6-8)  
Soils : T.M, O.LG

This association occurs commonly in the Boreal Mixedwood on nearly level to level depressional areas. Moisture regimes are generally subhydryc with Terric Mesisols and Gleysols as common soils. Nutrient regimes are expected to be somewhat poorer than mesic. The high water table is the limiting factor to tree growth.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Picea mariana</b>	Black spruce
Shrub	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Lonicera involucrata</b>	Bracted honeysuckle
Forb	<b>Linnaea borealis</b>	Twinflower
	<b>Equisetum scirpoides</b>	
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
	<b>Cornus canadensis</b>	Bunchberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss

The tree layer is generally well-developed in this association. However, the growth is usually stunted due to the high water table. Black spruce is the dominant species with lodgepole pine and tamarack occurring occasionally. The shrub layer is moderately heavy with labrador tea as the dominant species. Bracted honeysuckle and prickly rose occur commonly but with lower constancy than labrador tea. The forb layer is generally sparse and includes a variety of species indicative of

moist conditions. The moss layer is heavy with feathermosses dominating. Sphagnum mosses occur sporadically with generally low cover, except on the wettest, most poorly drained sites where cover is relatively high.

2.1.12 Tamarack-Black Spruce/Sedge/Sphagnum  
(Larix laricina-Picea mariana/Carex spp. /Sphagnum spp.)

Site Characteristics

Moisture regime : Subhydryc to hydric  
 Nutrient regime : Mesotrophic to permesotrophic  
 Slope : 0  
 Aspect :  
 Elevation : 705-815  
 Number of plots : 5

Soil Characteristics

Parent materials : Organic  
 Texture (B horizon): Mesic  
 Drainage : Poor to very poor  
 pH (B horizon) : Not collected  
 Soils : TY.M, O.G

This association is common on level, depressional topography in the Boreal Mixedwood. The water table is close to the surface at these sites therefore very poor drainage and subhydryc to hydric moisture regimes are common. The nutrient regimes are usually slightly richer than mesic due to mineral rich seepage water being received. Soils are usually organic, however, gleysols may be encountered occasionally.

Characteristic Species

<u>Layer</u>	<u>Species</u>
Tree	Larix laricina Picea mariana Tamarack Black spruce

<u>Layer</u>	<u>Species</u>	
Shrub	<b>Salix</b> spp.	Willow
Grass	<b>Carex</b> spp.	Sedge
Moss	<b>Shagnum</b> spp.	

The species composition of this association is variable and closely related to the amount of water present near the surface over the year. All vegetation layers tend to be poorly developed with the exception of the moss layer which generally has heavy cover. The presence of tamarack as a codominant with black spruce indicates that sites receive more nutrients than black spruce dominated bogs.

#### 2.1.13 White Spruce/Prickly Rose/Hairy Wild Rye (*Picea glauca*/*Rosa acicularis*/*Elymus innovatus*)

##### Site Characteristics

Moisture regime	:	Submesic, subxeric
Nutrient regime	:	Submesotrophic
Slope	:	0-9
Aspect	:	Variable
Elevation	:	680, 715
Number of plots	:	2

##### Soil Characteristics

Parent material	:	E, GF
Texture (B horizon):	:	Moderately coarse
Drainage	:	Well to rapid
pH (B horizon)	:	5.5 (5-6)
Soil	:	PZ.GL, E.DYB

This association occurs to a limited extent on dry sites in the Boreal Mixedwood within the study area. Moisture regimes are submesic to subxeric with well to rapidly drained soils. Soils are Podzolic Grey Luvisols and Eluviated Dystric Brunisols, both of which are uncommon in the ecoregion except on coarser textured deposits.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea glauca</i>	White spruce
Shrub	<i>Rosa acicularis</i> <i>Picea glauca</i>	Prickly rose Picea White spruce
Forb	<i>Linnaea borealis</i> <i>Cornus canadensis</i> <i>Epilobium angustifolium</i> <i>Galium boreale</i> <i>Lathyrus ochroleucus</i> <i>Maianthemum canadense</i>	Twinflower Bunchberry Fireweed Northern bedstraw Peavine Wild lily-of-the-valley
Grass	<i>Elymus innovatus</i>	Hairy wild rye
Moss	<i>Pleurozium schreberi</i> <i>Hylocomium splendens</i>	Schreber's moss Stair-step moss

The tree canopy is generally open in this white spruce dominated association. Lodgepole pine, trembling aspen, balsam poplar and white birch can all be expected to occur sporadically in association with the spruce. The shrub layer is generally moderate with a variety of species occurring. Forb and grass cover is also moderate with a relatively wide diversity of species due to the open nature of the stand. Moss cover is generally low in comparison to other white spruce-dominated associations. This is due to the xeric nature of the sites.

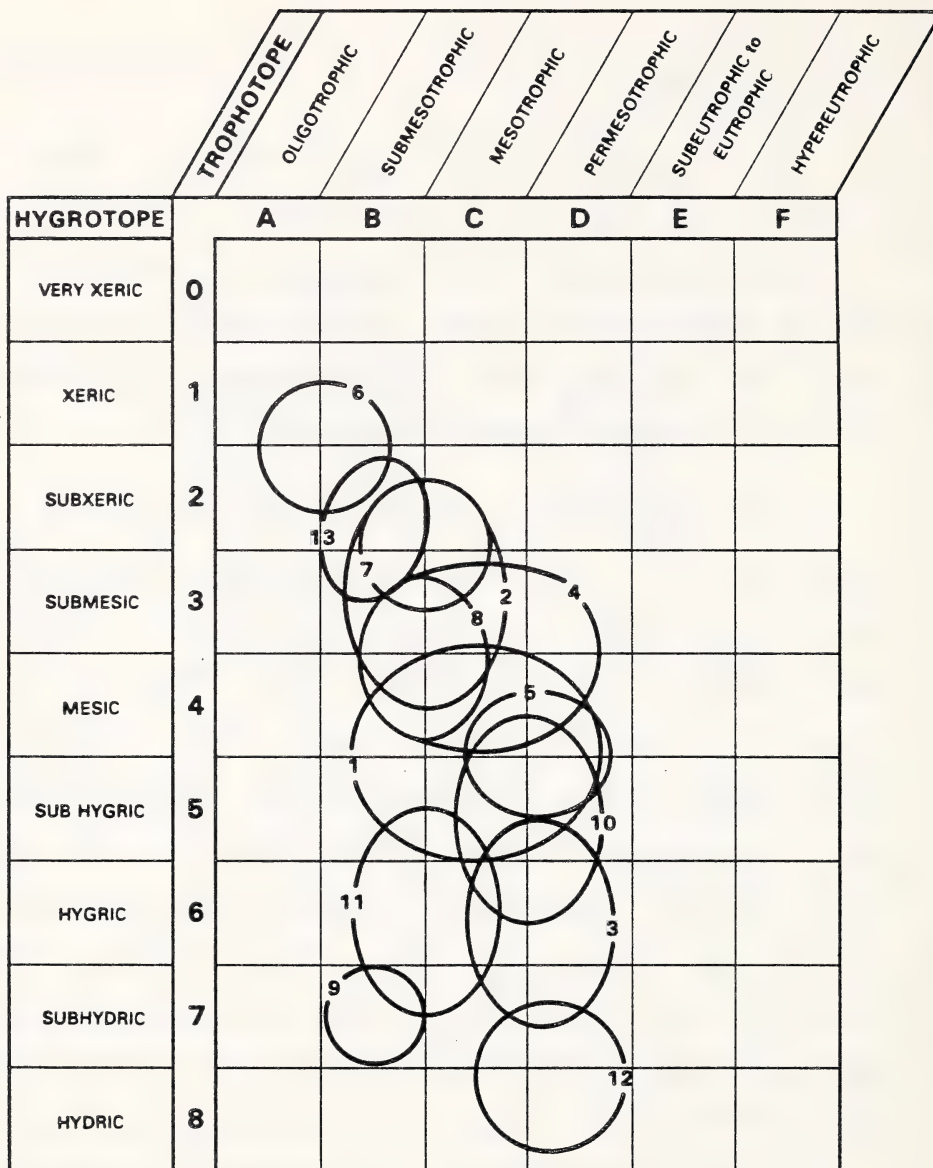
This association occurs under similar conditions as the Lodgepole Pine/Blueberry/Lichen and the Trembling Aspen/Prickly Rose/Peavine associations. Fire history and seed source are thought to influence the tree species that regenerate after fire on these sites.

#### 2.1.14 Discussion

The distribution of plant associations in the Boreal Mixedwood Ecoregion in the study area is largely controlled by soil drainage which is related to soil texture and parent materials. Microclimatic factors such as those caused by aspect, do not have a significant role in controlling plant distribution. A moisture-nutrient grid (Figure 150) shows the relationships between associations

The Aspen/Low-bush Cranberry/Dewberry association, which is successional to the White Spruce/Bracted Honeysuckle/Dewberry association, represents modal sites in the ecoregion. The Aspen-Balsam Poplar/Bracted Honeysuckle/Dewberry and Aspen/Thimbleberry/Wild Sarsaparilla associations occur on slightly moister locations, with the latter commonly related to seepage conditions. The Aspen/Prickly Rose/Peavine association represents slightly drier than modal conditions. Coarser textured veneers of eolian or glaciofluvial often overlie finer textured materials at these sites. The Aspen/Beaked Hazelnut/Wild Sarsaparilla association occurs on near modal sites, however, it is usually confined to river valleys at lower elevations where temperatures may be somewhat warmer.

Well and rapidly drained sites with coarse textured eolian and glaciofluvial materials support lodgepole pine forest. The Lodgepole Pine/Blueberry/Lichen association occurs on the driest sites while Lodgepole Pine/Feathermoss is more common on subxeric locations. The Lodgepole Pine/Low-bush Cranberry/Wild Sarsaparilla associations occur on near mesic conditions. Coarse-textured materials overlie finer-textured



1. Trembling aspen / Low - bush cranberry / Dewberry
2. Trembling aspen / Prickly rose / Peavine
3. Trembling aspen - Balsam poplar / Bracted honeysuckle / Dewberry
4. Trembling aspen / Beaked hazelnut / Wild sarsaparilla
5. Trembling aspen / Thimbleberry / Wild sarsaparilla
6. Lodgepole pine / Blueberry / Lichen
7. Lodgepole pine / Feathermoss
8. Lodgepole pine / Low - bush cranberry / Wild sarsaparilla
9. Black spruce - Lodgepole pine / Labrador tea / Feathermoss
10. White spruce / Bracted honeysuckle / Dewberry
11. Black spruce / Labrador tea / Feathermoss
12. Tamarack - Black spruce / Sedge / Sphagnum
13. White spruce / Prickly rose / Hairy wild rye

**Figure 150: Moisture and Nutrient Regimes for Plant Associations in the Boreal Mixedwood Ecoregion**

deposits at these sites which improves the moisture holding capacity and allows more diverse shrub and herb understories to develop.

The three black spruce-dominated associations occur on imperfectly to poorly drained sites. The Black Spruce-Lodgepole Pine/Feathermoss associations represent imperfectly drained conditions with Black Spruce/Labrador Tea/Feathermoss being poorly drained and Tamarack-Black Spruce/Sedge/Sphagnum representing the very poorly drained sites.

## 2.2 Boreal Foothills

The Boreal Foothills Ecoregion (Ecoregion 9, Strong and Leggat, 1982) occupies a relatively narrow band trending northwest to southeast across the study area (Figure 2, Vol. I). It occurs elevationally above the Boreal Mixedwood Ecoregion from approximately 860 m to 1 060 m asl.

The ecoregion represents an ecotone between Boreal and Cordilleran vegetation which is reflected in the change from deciduous dominated to coniferous dominated forests. The climate of the ecoregion results from both boreal and cordilleran influences. The boreal influence produces a summer high precipitation regime while the Cordilleran influence results in increased winter temperature and precipitation compared to the Boreal Mixedwood. Specific climatic parameters for climatic stations within the study area are shown in Appendix E.

The topography consists of undulating to rolling plateau remnants. Glacial till is the dominant surficial material.

Aspen, lodgepole pine and white spruce occur interchangeably or in mixtures on moderately well drained modal sites in the ecoregion. The deciduous component usually dominates at the lower elevations while lodgepole pine is more prevalent in the upper portions. Understory vegetation in younger stands consists of well developed shrub and herb layers dominated by low-bush cranberry and wild sarsaparilla, respectively. Secondary succession is to white spruce with understory species diversity and density decreasing in the older stands.

Rapidly and well-drained sites are usually vegetated by lodgepole pine which can tolerate dry conditions. Understory species include lichens which reflect the dry site conditions. Soils are generally poorly developed Brunisols.

Imperfectly drained sites are dominated by lodgepole pine and black spruce with succession to black spruce. Understory vegetation is dominated by mosses and labrador tea. Common soils are Gleyed Luvisols and Gleysols.

There are eight associations identified for the ecoregion in the study area. Of these three occur on modal sites, four represent wetter site conditions and one is characteristic of rapid drainage.

The mapping criteria used for delineating the Boreal Foothills ecoregion in this study are based on the modal site concept. At the upper elevations, the Lodgepole pine/Low-bush cranberry/Wild sarsaparilla association predominates. These stands usually have a component of aspen in the overstory which becomes restricted to scattered clones near the

upper elevation limits. Modal sites at lower elevations characteristically support the Aspen/Low-bush cranberry/Wild sarsaparilla association which has a pine component in the overstory. A very similar association occurs in the Boreal Mixedwood, however, pine is generally absent.

#### 2.2.1 Lodgepole Pine/Low-Bush Cranberry/Wild Sarsaparilla (Pinus contorta/Viburnum edule/Aralia nudicaulis)

##### Site Characteristics

Moisture regime	: Submesic to hygric
Nutrient regime	: Submesotrophic to permesotrophic
Slope	: 0-17%
Aspect	: Variable
Elevation	: 880-1 090
Number of plots	: 13

##### Soil Characteristics

Parent materials	: M, X, GF
Texture (B horizon):	Moderately fine to medium
Drainage	: Well to imperfect
pH (B horizon)	: 5.7 (4.6-8)
Soils	: BR.GL, O.GL, E.DYB, E.EB, GL.GL, GLE.DYB

This association is wide-spread through the Boreal Foothills Ecoregion in the study area but is more prevalent at the upper elevations. It occurs on level to strongly sloping topography on morainal deposits. The moisture regime is predominantly mesic although a significant number of sites are subhygric. Soils are usually moderately well or well drained.

## Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Pinus contorta</i>	Lodgepole pine
Shrub	<i>Viburnum edule</i>	Low-bush cranberry
	<i>Rosa acicularis</i>	Prickly rose
	<i>Spiraea betulifolia</i>	White meadowsweet
Forb	<i>Cornus canadensis</i>	Bunchberry
	<i>Linnaea borealis</i>	Twinflower
	<i>Aralia nudicaulis</i>	Wild sarsaparilla
	<i>Rubus pubescens</i>	Dewberry
	<i>Maianthemum canadense</i>	Wild lily-of-the-valley
	<i>Epilobium angustifolium</i>	Fireweed
Moss	<i>Mitella nuda</i>	Bishop's cap
	<i>Pleurozium schreberi</i>	Schreber's moss
	<i>Ptilium crista-castrinoi</i>	Knight's plume moss
	<i>Hylocomium splendens</i>	Stair-step moss

Lodgepole pine dominates the tree layer in this association with trembling aspen and white spruce often occurring as well. The distribution of aspen is reduced to scattered clones within the pine forest at the upper elevations of the association. White spruce is relatively common in the shrub layers indicating the successional trend. The shrub layer is well developed and contains species indicative of Boreal conditions, i.e. low-bush cranberry, rose and meadowsweet. Devil's club (*Oplopanax horridum*) is occasionally present in this association. It is usually confined to seepage tracks along slopes and is therefore an indicator of seepage conditions. The forb layer is well developed also, with bunchberry, twinflower and wild sarsaparilla being most common. The grass layer has light cover while the moss layer is variable but generally only moderately developed. This is probably due to the well developed forb and shrub layers.

## 2.2.2 Trembling Aspen/Low-bush Cranberry/Wild sarsaparilla (Populus tremuloides/Viburnum edule/Aralia nudicaulis)

### Site Characteristics

Moisture regime: Hygric to submesic  
 Nutrient regime: Eutrophic to submesic  
 Slope : 1-37%  
 Aspect : Variable  
 Elevation : 900-1 085  
 Number of plots: 4

### Soil Characteristics

Parent material: M, GF  
 Texture : Moderately fine to medium  
 Drainage : Well to imperfect  
 pH (B horizon) : 6.5 (5-8)  
 Soils : GL.GL, O.HR, BR.GL

This association is relatively common at lower elevations in the Boreal Foothills Ecoregion. It occurs on nearly level to very strongly sloping topography on hygric to mesic moisture regimes. Seepage is often present; the mineral-rich groundwater originating upslope probably contributes to eutrophic nutrient regimes. Soils are often imperfectly drained although the association can also be expected on well-drained sites.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
	<b>Populus balsamifera</b>	Balsam poplar
Shrub	<b>Viburnum edule</b>	Low-bush cranberry
	<b>Rosa acicularis</b>	Prickly rose
	<b>Alnus crispa</b>	Green alder
	<b>Spiraea betulifolia</b>	White meadowsweet
	<b>Amelanchier alnifolia</b>	Saskatoon
	<b>Lonicera involucrata</b>	Bracted honeysuckle
	<b>Rubus idaeus</b>	Wild red raspberry

Forb	<i>Aralia nudicaulis</i>	Wild sarsaparilla
	<i>Rubus pubescens</i>	Dewberry
	<i>Cornus canadensis</i>	Bunchberry
	<i>Mitella nuda</i>	Bishop's cap
	<i>Epilobium angustifolium</i>	Fireweed
	<i>Petasites palmatus</i>	Coltsfoot
	<i>Pyrola asarifolia</i>	Pink wintergreen
	<i>Aster conspicuus</i>	Showy aster
	<i>Mertensia paniculata</i>	Tall mertensia
	<i>Elymus innovatus</i>	Hairy wild rye

Trembling aspen is dominant in the tree layer with balsam poplar occurring frequently. White spruce is present sporadically as regeneration and would be expected to form the climax association. The shrub layer is generally heavy and is dominated by low-bush cranberry and rose. Green alder is often present, probably as a result of seepage. The forb layer is also well developed with wild sarsaparilla and dewberry being the most abundant species. The grass and moss layers are poorly developed with low cover.

#### 2.2.3 White Spruce/Low-bush Cranberry/Dewberry (*Picea glauca*/*Viburnum edule*/*Rubus pubescens*)

##### Site Characteristics

Moisture regime	:	Hygric to mesic
Nutrient regime	:	Submesotrophic to permesotrophic
Slope	:	3-11%
Elevation	:	870-975
Number of plots	:	6

##### Soil Characteristics

Parent material	:	M, F, GF
Texture (B horizon)	:	Moderately fine to coarse
Drainage	:	Well to imperfect
pH (B horizon)	:	6.3 (5-8)
Soils	:	GLBR.GL, O.LG, O.G, O.GL

This association is relatively uncommon in the Boreal Foothills due to the extensive fire history of the area, and the fact that it represents a later successional stage. It occurs on very gently to moderately sloping generally north-facing topography. Drainage conditions and moisture regimes are variable; however, imperfectly to moderately well drained soils and subhygric moisture regimes are common. Soils are usually Gleyed Luvisols or Gleysols. Seepage is likely a common feature of communities belonging to this association.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea glauca</i>	White spruce
Shrub	<i>Viburnum edule</i>	Low-bush cranberry
	<i>Lonicera involucrata</i>	Bracted honeysuckle
	<i>Rosa acicularis</i>	Prickly rose
Forb	<i>Linnaea borealis</i>	Twinflower
	<i>Cornus canadensis</i>	Bunchberry
	<i>Rubus pubescens</i>	Dewberry
	<i>Mitella nuda</i>	Bishop's cap
	<i>Petasites palmatus</i>	Coltsfoot
	<i>Aralia nudicaulis</i>	Wild sarsaparilla
Moss	<i>Hylocomium splendens</i>	Stair-step moss
	<i>Ptilium crista-castrensis</i>	Knight's plume moss
	<i>Pleurozium schreberi</i>	Schreber's moss

This association is dominated by white spruce and balsam poplar with alpine fir occurring sporadically. The shrub layer is moderately well-developed with rose, bracted honeysuckle and low-bush cranberry occurring in varying proportions. The forb layer also has moderate cover; however, the moss layer is well-developed at most sites with stair-step moss dominating. The abundant moss layer is indicative of the moist mesoclimate created by the coniferous overstory.

2.2.4 Lodgepole Pine/Labrador Tea/Lichen  
(Pinus contorta/Ledum groenlandicum/Cladonia spp.)

Site Characteristics

Moisture regime	:	Submesic to subxeric
Nutrient regime	:	Submesotrophic to mesotrophic
Slope	:	0-8
Aspect	:	Variable
Elevation	:	905-1 000
Number of plots	:	6

Soil Characteristics

Parent material	:	GF, E, M, F
Texture (B horizon):	:	Moderately fine to coarse
Drainage	:	Well to rapid
pH (B horizon)	:	5.5 (4.8-6)
Soils	:	BR.GL, E.DYB, E.EB, O.GL

This association is found on generally coarse-textured materials in the Boreal Foothills Ecoregion. Slopes range from level to gently sloping. The soil moisture regime varies from submesic to subxeric and soils are well to rapidly drained.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Vaccinium myrtilloides</b>	Blueberry
Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Cladina mitis</b>	Reindeer moss

Lodgepole pine-dominated stands have an understory of labrador tea in the shrub layer, a sparse ground cover of forbs and a moderate cover of feathermoss and lichen, characterize this association. Although black

spruce occurs occasionally in the understory, regeneration appears to be poor suggesting that this association constitutes an edaphic climax in the Boreal Foothills Ecoregion on dry, well-drained sites.

2.2.5 Lodgepole Pine-Black Spruce/Labrador Tea/Feathermoss  
(***Pinus contorta*/*Picea mariana*/*Ledum groenlandicum*/*Pleurozium schreberi***)

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Site Characteristics

Moisture regime	: Mesic to subhygric
Nutrient regime	: Mesotrophic to submesorophic
Slope	: 0-13
Aspect	: Variable
Elevation	: 905-1 060
Number of plots	: 16

Soil Characteristics

Parent material	: M, GF, F
Texture (B horizon)	: Moderately fine textured
Drainage	: Well to imperfect
pH (B horizon)	: 5.4 (4.3-7)
Soils	: BR.GL, GLBR.GL, O.LG

This association occurs to a limited extent in the Boreal Foothills Ecoregion on level to moderately sloping topography, usually in depressional and valley bottom locations. Soil texture in the B horizon is moderately fine. The soils have a mesic to subhygric moisture regime and are well to imperfectly drained. Gleying and seepage are present at some sites.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Picea mariana</i></b>	Black spruce
	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Ledum groenlandicum</i></b>	Labrador tea
	<b><i>Rosa acicularis</i></b>	Prickly rose
	<b><i>Vaccinium myrtilloides</i></b>	Blueberry

Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss

Lodgepole pine and black spruce share dominance in this association. Black spruce would be expected to eventually become the dominant in these stands particularly on the wetter sites, as it is regenerating under the existing canopy. The shrub layer is moderately developed with labrador tea, rose and blueberry occurring frequently. The forb and grass layers are very sparse. The moss layer is heavy with Schreber's moss as the dominant species.

#### 2.2.6 Black spruce/Feathermoss (Picea mariana/Hylocomium splendens)

##### Site Characteristics

Moisture regime	:	Hygric to subhydryc
Nutrient regime	:	Submesotrophic
Slope	:	0-1%
Aspect	:	
Elevation	:	965-1 010
Number of plots	:	3

##### Soil Characteristics

Parent material	:	L, O
Texture (B horizon):	:	Not collected
Drainage	:	Poor to very poor
pH (B horizon)	:	Not collected
Soil	:	T.M

The association occurs to a limited extent in level valley bottom locations where seepage water collects. Drainage is poor to very poor and moisture regimes are hygric to subhydryc. Organic soils may develop at these sites, however, gleysols can also be expected.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea mariana</i>	Black spruce
Shrub	<i>Ledum groenlandicum</i> <i>Lonicera involucrata</i>	Labrador tea Bracted honeysuckle
Forb	<i>Petasites palmatus</i> <i>Mitella nuda</i> <i>Equisetum scirpoides</i>	Coltsfoot Bishop's cap Horsetail
Moss	<i>Hylocomium splendens</i> <i>Pleurozium schreberi</i> <i>Ptilium crista-castrensis</i>	Stair-step moss Schreber's moss Knight's plume moss
Lichen	<i>Cladina mitis</i>	Reindeer lichen

Black spruce is the dominant tree species with lodgepole pine occurring infrequently in this association. Black spruce is expected to form the climax. The shrub layer is poorly developed with only labrador tea and bracted honeysuckle occurring as constant species. The forb and grass layers are also very sparse, however, the species that occur indicate wet conditions. Feathermosses are constant with high cover in the moss layer, where localized sphagnum patches also occur.

#### 2.2.7 Tamarack-Black Spruce/Dwarf Birch/Sphagnum spp. (*Larix laricina*-*Picea mariana*/*Betula glandulosa*/Sphagnum spp.)

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### Site Characteristics

Moisture regime	:	Hydric
Nutrient regime	:	Permesotrophic
Slope	:	0%
Aspect	:	
Elevation	:	985-1 065
Number of plots	:	2

### Soil Characteristics

Parent material : Organic  
Texture (B horizon): Mesisol  
Drainage : Very poorly  
pH (B horizon) : 8.0  
Soils : HY.M

This association occurs to a limited extent in the Boreal Foothills Ecoregion on organic deposits. Sites generally receive nutrient rich seepage water from surrounding materials which increases the nutrient status; however, the high water table limits plant growth.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Larix laricina</b>	Tamarack
Shrub	<b>Betula glandulosa</b>	Dwarf birch
Forb	<b>Smilacina trifolia</b>	Three-leaved Solomon's -seal
	<b>Oxycoccus micocarpa</b>	Small bog cranberry
Grass	<b>Carex</b> spp.	Sedge
Moss	<b>Sphagnum</b> spp.	Sphagnum

The tree layer is poorly developed in this association with stunted tamarack and occasional black spruce occurring in very open stands. Consequently, tamarack which is a shade intolerant species, is able to regenerate well at these sites. The shrub layer is well-developed with dwarf birch being dominant and tamarack and willow also occurring. The forb layer is generally sparse with three-leaved Solomon's-seal and small bog cranberry being the only constant species. A few sedge species occur in the grass layer while sphagnum mosses are abundant in the moss layer.

2.2.8 White Spruce/Horsetail  
(Picea glauca/Equisetum spp.)

Site Characteristics

Moisture regime	:	Subhygric to subhydric
Nutrient regime	:	Permesotrophic-mesotrophic
Slope	:	0-4%
Aspect	:	Variable
Elevation	:	550-1 230
Number of plots	:	7

Soil Characteristics

Parent materials	:	M, F
Texture (B horizon):	:	Medium
Drainage	:	Well to poor
pH (B horizon)	:	8.0
Soils	:	O.LG, O.G. O.HG, CU.R

This association occurs to a limited extent in the study area on level to very gently sloping depressional and lower slope positions. They are often associated with fluvial systems. These sites receive nutrient-rich seepage water from upslope. Soils are often gleyed due to the high water table and poor drainage.

Characteristic Species

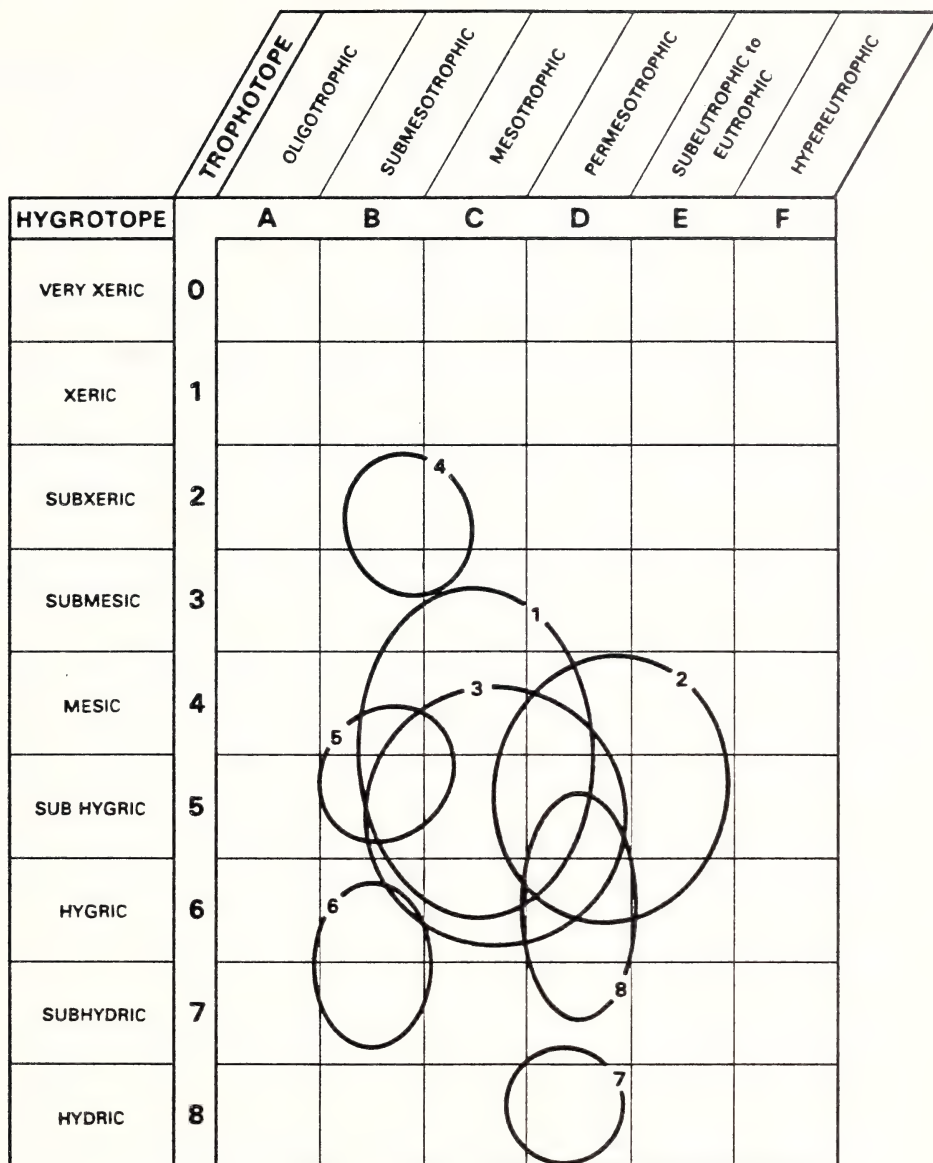
<u>Layer</u>	<u>Species</u>	
Tree	<b>Picea glauca</b>	White spruce
Shrub	<b>Rosa acicularis</b>	Prickly rose
	<b>Lonicera involucrata</b>	Bracted honeysuckle
Forb	<b>Equisetum arvense</b>	Horsetail
	<b>Linnaea borealis</b>	Twinflower
	<b>Rubus pubescens</b>	Dewberry
	<b>Cornus canadensis</b>	Bunchberry
	<b>Mertensia paniculata</b>	Tall mertensia
	<b>Mitella nuda</b>	Bishop's cap
Moss	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss
	<b>Pleurozium schreberi</b>	Schreber's moss

White spruce-dominated stands with an open shrub layer, a forb layer predominantly composed of horsetail and a well-developed feathermoss layer characterize the white spruce-horsetail association. Regeneration is generally poor, however, the best regeneration appears to be associated with moderately well to well-drained soils derived from fluvial parent materials.

This association which occurs in the Boreal Mixedwood and Boreal Uplands as well as the Boreal Foothills is a edaphic climax; soil drainage and moisture probably influence community development more than the regional climate.

#### 2.2.9 Discussion

The distribution of vegetation associations in the Boreal Foothills is generally controlled by drainage conditions and, to some extent, by climate. An edatophic grid showing moisture and nutrient status for each association is shown in Fig. 151. The three modal associations; Lodgepole pine/Low-bush cranberry/Wild sarsaparilla, Trembling aspen/Low-bush cranberry/Wild sarsaparilla, and White spruce/Low-bush cranberry/Dewberry all occupy similar site conditions. However, there are some notable differences. The White spruce/Low-bush cranberry/Dewberry is more common on wetter sites due to the more rapid succession to spruce on these sites and probably a lower incidence of fires. The Lodgepole pine/Low-bush cranberry/Wild sarsaparilla association is more common at the higher elevations of the ecoregion where it grades into the less species diverse associations of the Boreal Uplands. The cooler climatic conditions at the higher elevation are



- |   |   |
|---|---|
| 1. Lodgepole pine / Low - bush cranberry / Wild sarsaparilla  | 5. Lodgepole pine - Black spruce / Labrador tea / Feathermoss |
| 2. Trembling aspen / Low - bush cranberry / Wild sarsaparilla | 6. Black spruce / Feathermoss                                 |
| 3. White spruce / Low - bush cranberry / Wild sarsaparilla    | 7. Tamarack - Black spruce / Dwarf birch / Sphagnum           |
| 4. Lodgepole pine / Labrador tea / Lichen                     | 8. White spruce / Horsetail                                   |

**Figure 151: Moisture and Nutrient Regimes for Plant Associations in the Boreal Foothills Ecoregion**

thought to be the most important factor controlling the distribution of this association. The Aspen/Low-bush cranberry/Wild sarsaparilla association, which is most prevalent at the lower elevations, represents a transition to the Boreal Mixedwood Ecoregion. Species composition is very similar to the modal aspen associations in the Boreal Mixedwood except for the common occurrence of lodgepole pine in aspen stands.

The Lodgepole pine-Black spruce/Labrador tea/Feathermoss, Black spruce/Feathermoss and Tamarack-Black Spruce/Dwarf birch/Sphagnum associations represent a moisture gradient from imperfectly to very poorly drained with the latter occurring on the wettest sites. The White spruce/Horsetail association also occurs on moist sites, however the nutrient status is improved on these sites due to seepage water inputs.

The Lodgepole pine/Labrador tea/Lichen association represents the drier extreme of the moisture gradients and is only found on coarser textured, well-drained materials.

Succession on modal sites in the Boreal Foothills is to a white spruce climax. The rate of succession varies, largely depending on vegetative competition after fire or logging, and the seed source of white spruce. The Lodgepole pine-Black spruce/Labrador tea/Feathermoss association would be expected to succeed to Black spruce as would the Lodgepole pine/Labrador tea/Lichen association. The rate of succession would be much slower in the latter case due to the dry nature of these sites. The Black spruce/Feathermoss, Tamarack-Black spruce/Dwarf birch/Sphagnum, White spruce/Horsetail and Pine/Labrador tea/Lichen association

may be considered edaphic climaxes. Although these associations may change over long periods of time there is insufficient information to infer the rate, direction, and nature of such changes.

### 2.3 Boreal Uplands

The Boreal Uplands Ecoregion (Ecoregion 9, Strong and Leggat, 1982) occupies a band trending northwest to southeast across the south central portion of the study area (Fig. 2, Vol. 1). It occurs above the Boreal Foothills at elevations ranging from approximately 1 060 m to 1 280 m asl.

The ecoregion resembles the Subalpine as coniferous forests are prevalent in both. However, the characteristic understory species are different. In addition, the potential climax species is considered to be white spruce or black spruce in the Boreal Uplands while Engelmann spruce or Engelmann spruce-white spruce hybrids are considered to be climax species in the Subalpine.

The climate of the Boreal Uplands shows a Cordilleran influence which produces warm winter temperatures and cooler summer temperatures than other Boreal Ecoregions experience. The boreal influence, Continental precipitation regime, contributes maximum precipitation in the May to September period. Specific climatic parameters for climatic stations within the study area are shown in Appendix E.

The topography consists of undulating and rolling plateau remnants at higher elevations than the Boreal Foothills Ecoregion. Morainal and residual materials are dominant.

Lodgepole pine dominates the overstory on modal sites within the Boreal Uplands with white and black spruce as potential climax species. In general, black spruce appears to be more prevalent in the pine stands occurring in slightly wetter locations. Understory vegetation on modal sites is not as diverse as in the Boreal Foothills. Ericaceous shrubs are common and the herb layer is generally sparse. Brunisolic Gray Luvisols predominate, but Eluviated Eutric Brunisols are also common.

Imperfectly to poorly drained depressional areas are black spruce dominated with dwarf birch shrublands being common in the wettest of these sites. Organic and gleysolic soils are prevalent in these locations.

Aspen is restricted to steep south-facing slopes in the Boreal Uplands where temperatures are warmer due to increased solar radiation. Understory species in these stands reflect dry site conditions.

There are 11 associations identified in this study for the Boreal Uplands ecoregion. Of these, three represent modal conditions, three reflect the presence of seepage inputs, three indicate higher water tables and two represent dry site conditions.

The upper elevation limit of the Boreal Uplands lies at about 1 280 m where the Lodgepole pine/White-flowered rhododendron/Feathermoss association generally replaces the Lodgepole pine/Labrador tea-Tall bilberry association on modal sites. The lower elevation boundary occurs at approximately 1 060 m where the Lodgepole pine/Low-bush cranberry/Wild sarsaparilla association of the Boreal Foothills replaces the Lodgepole pine/Labrador tea/Feathermoss association on modal sites.

2.3.1 Lodgepole Pine/Labrador Tea/Feathermoss  
(Pinus contorta/Ledum groenlandicum/Pleurozium schreberi)

Site Characteristics

Moisture regime	:	Submesic to subhygric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-25
Aspect	:	Variable
Elevation	:	1 100 - 1 440
Number of plots	:	9

Soil Characteristics

Parent material	:	M, F, GL, C
Texture (B horizon)	:	Moderately fine to coarse
Drainage	:	Well to imperfect
pH (B horizon)	:	5.2 (4.4-6)
Soils	:	BR.GL, O.LG, O.GL

This association is generally found on gently sloping or nearly level topography with generally mesic conditions, however, it is occasionally found on steep slopes with imperfectly drained soils. Parent materials are variable with moraine, fluvial, lacustrine, colluvium and residual all occurring. The association is generally widespread throughout the ecoregion and is found on sites with similar conditions as those of the Lodgepole pine/Labrador tea-Tall bilberry association.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Vaccinium myrtilloides</b>	Blueberry
	<b>Rosa acicularis</b>	Prickly rose

<u>Layer</u>	<u>Species</u>	
Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
	<b>Epilobium angustifolium</b>	Fireweed
	<b>Vaccinium caespitosum</b>	Dwarf bilberry
	<b>Lycopodium annotinum</b>	Stiff club moss
	<b>Petasites palmatus</b>	Coltsfoot
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss
	<b>Hylocomium splendens</b>	Stair-step moss

Lodgepole pine dominates the tree layer in this association with only minor occurrence of other species. Black and white spruce occurs sporadically as regeneration indicating possible succession to these species. The shrub layer is well-developed and dominated by Labrador tea and blueberry with minor occurrences of prickly rose. The forb layer is moderately well-developed with bunchberry and twinflower being most common. The moss layer is generally well-developed with Schreber's moss, knight's plume moss and stair-step moss all being common.

#### 2.3.2 Lodgepole pine/Labrador Tea-Tall Bilberry (Pinus contorta/Ledum groenlandicum-Vaccinium membranaceum)

##### Site Characteristics

Moisture regime	:	Submesic to subhygric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-25%
Aspect	:	Variable (N, NE, NW)
Elevation	:	1 080- 1 220
Number of plots	:	5

### Soil Characteristics

Parent material : Moraine  
Texture (B horizon): Moderately fine  
Drainage : Well to imperfect  
pH (B horizon) : 4.8 (4.4-5)  
Soils : E.DYB, O.LG, GL.GL

This association is relatively widespread in the Boreal Uplands generally under mesic conditions, however, it is expected that this association would be more common at the upper elevations of the ecoregion. Parent materials are moraine veneers and blankets over bedrock or residual materials. Most occurrences were on gently sloping topography, however, the association is also expected on steeper northerly slopes.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Vaccinium membranaceum</b>	Tall bilberry
	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Vaccinium myrtoloides</b>	Blueberry
Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Rubus pedatus</b>	Five-leaved bramble
	<b>Lycopodium annotinum</b>	Stiff club-moss
	<b>Orthilia secunda</b>	One-sided winter-green
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss

The tree layer is well developed and dominated by lodgepole pine. Black spruce and alpine fir occur sporadically as regeneration indicating possible succession to those species. The well-developed shrub layer is

composed mainly of ericaceous shrubs. The presence of blueberry in combination with tall bilberry indicates that this association is a transition from the Lodgepole pine/Tall bilberry/Five-leaved bramble association common in the Subalpine to the Lodgepole pine/Labrador tea/Schreber's moss association found more commonly in the Boreal Uplands. The forb layer is generally poorly developed with moderate species diversity, however, the moss cover is generally heavy as would be expected in this ecoregion.

### 2.3.3 Lodgepole Pine/Alder/Dewberry (*Pinus contorta*/*Alnus crispa*/*Rubus pubescens*)

#### Site Characteristics

Moisture regime	:	Subhygric to SUBmesic
Nutrient regime	:	Permesotrophic
Slope	:	22-65%
Aspect	:	Variable
Elevation	:	1 080-1 270
Number of plots	:	6

#### Soil Characteristics

Parent material	:	C, M
Texture (B horizon)	:	Moderately fine
Drainage	:	Well to imperfect
pH (B horizon)	:	6.2 (6-6.5)
Soils	:	GL.GL, O.EB, BR.GL

This association is relatively common on strong to extreme slopes in the Boreal Uplands. Many of these sites receive seepage water from upslope therefore improving the availability of nutrients. The higher than normal pH for these sites is also indicative of an improved nutrient regime. Soils are generally shallow over bedrock or residual materials which would influence the amount of near surface seepage present.

Internal drainage varies from well to imperfect depending on site conditions.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Alnus crispa</b> <b>Rosa acicularis</b> <b>Spiraea betulifolia</b> <b>Viburnum edule</b>	Green alder Prickly rose White meadowsweet Low-bush cranberry
Forb	<b>Epilobium angustifolium</b> <b>Linnaea borealis</b> <b>Pyrola asarifolia</b> <b>Rubus pubescens</b> <b>Arnica cordifolia</b> <b>Aster conspicuus</b> <b>Cornus canadensis</b> <b>Maianthemum canadense</b>  <b>Mertensia paniculata</b>	Fireweed Twinflower Pink wintergreen Dewberry Heart-leaved arnica Showly aster Bunchberry Two-leaved Solomon's seal Tall mertensia
Grass	<b>Elymus innovatus</b>	Hairy wild rye
Moss	<b>Pleurozium shereberi</b> <b>Ptilium crista-castrensis</b> <b>Hylocomium splendens</b>	Schreber's moss Knight's plume moss Stair-step moss

Lodgepole pine dominates the tree layer in this association with sporadic occurrence of white spruce, balsam poplar and trembling aspen. White spruce occurs spradically as regeneration and would be expected to form the overstory under climax conditions. The shrub layer is well-developed in comparison to other associations in the ecoregion. Green alder dominates this layer; its growth is probably enhanced by seepage inputs to the soils. Rose, meadowsweet and low-bush cranberry are also common. The forb layer is relatively species-rich as would be expected over such a range of site moisture conditions and high nutrient status.

Moss cover is moderate to low, probably due to the heavier cover in the shrub and forb layers.

2.3.4 Lodgepole Pine/Alder/Labrador Tea  
(Pinus contorta/Alnus crispa/Ledum groenlandicum)

Site Characteristics

Moisture regime	:	Mesic to hygric
Nutrient regime	:	Submesotrophic
Slope	:	0-4
Aspect	:	Northerly to neutral
Elevation	:	1 095-1 110
Number of plots	:	4

Soil Characteristics

Parent materials	:	M, GF
Texture (B horizon):	:	Moderately fine to coarse
Drainage	:	Well to imperfect
pH (B horizon)	:	5.3 (5-6)
Soils	:	GL.GL, E.DYB, O.G, O.LG

This association occurs throughout the ecoregion on very gentle slopes, often with imperfect or moderately well drained conditions. The presence of bedrock or residual material near the surface restricts drainage and provides conditions that are suitable for the establishment of alder. These sites have slightly more acid pH's than the lodgepole pine/alder/dewberry association. This is likely due to a decreased input of nutrient-rich seepage waters.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Alnus crispa</b>	Green alder
	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Vaccinium membranaceum</b>	Tall bilberry

Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Epilobium angustifolium</b>	Fireweed
	<b>Rubus pedatus</b>	Five-leaved bramble
	<b>Linnaea borealis</b>	Twinflower
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Ptilim crista-castrensis</b>	Knight's plume moss
	<b>Polytrichum juniperum</b>	

Lodgepole pine dominates the tree layer in this association with sporadic occurrence of white and black spruce. Occasionally, white and black spruce occur as regeneration indicating possible succession to these species. The shrub layer is well-developed with green alder dominating. The presence of labrador tea and tall bilberry are indicative of acidic soils. The forb layer is generally poorly developed; bunchberry, fireweed, five-leaved bramble and twinflower occur with low cover. The moss layer is well-developed in the lower understory with Schreber's moss and knight's plume moss being prevalent.

#### 2.3.5 Lodgepole Pine/Twisted Stalk/Feathermoss (***Pinus contorta*/Streptopus amplexifolius/Pleurozium schreberi** )

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##### Site Characteristics

Moisture regime	:	Mesic to submesic
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-40%
Aspect	:	Variable
Elevation	:	1 210-1 370
Number of plots	:	5

##### Soil Characteristics

Parent material	:	C, M
Texture (B horizon)	:	Moderately fine to medium
Drainage	:	Moderately well to well
pH (B horizon)	:	4.9 (4.2-6)
Soils	:	O.GL, BR.GL, E.DYB

This association occurs on level to very strong slopes with predominantly northerly aspects. Mesic moisture conditions and mesotrophic nutrient regimes are common. These sites do not appear to be receiving large amounts of seepage water. The dominant soils are moderately well drained Orthic Gray Luvisols with Regosols and Brunisolic Gray Luvisols also present. Colluvial and morainal materials over bedrock and saprolite are typically associated with these sites.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Viburnum edule</i></b>	Low-bush cranberry
	<b><i>Rosa acicularis</i></b>	Prickly rose
	<b><i>Rubus pedatus</i></b>	Five-leaved bramble
Forb	<b><i>Linnaea borealis</i></b>	Twinflower
	<b><i>Cornus canadensis</i></b>	Bunchberry
	<b><i>Streptopus amplexifolius</i></b>	Twisted-stalk
	<b><i>Orthilia secunda</i></b>	One-sided wintergreen
	<b><i>Epilobium angustifolium</i></b>	Fireweed
	<b><i>Rubus pubescens</i></b>	Dewberry
	<b><i>Lycopodium annotinum</i></b>	Stiff club-moss
	<b><i>Petasites palmatus</i></b>	Coltsfoot
	<b><i>Arnica cordifolia</i></b>	Heart-leaved arnica
Moss	<b><i>Pleurozium schreberi</i></b>	Schreber's moss
	<b><i>Ptilium crista-castrensis</i></b>	Knight's plume moss
	<b><i>Hylocomium splendens</i></b>	Stair-step moss
Lichen	<b><i>Peltigera apthosa</i></b>	Studded-leather lichen

Lodgepole pine dominates the well-developed tree canopy in this association with trembling aspen, white spruce and alpine fir occurring sporadically. Regeneration by spruce and alpine fir suggests eventual succession to these species. The shrub layer is generally low in cover with low-bush cranberry and prickly rose as constant species. The forb

layer is heavier and more diverse than other associations in the ecoregion probably because of microsite variability in moisture and nutrient regimes. The moss layer is moderate with Schreber's moss, knight's plume moss and stair-step moss being dominant.

#### 2.3.6 White Spruce/Feathermoss (Picea glauca/Hylocomium splendens)

##### Site Characteristics

Moisture regime	:	Hygric to mesic
Nutrient regime	:	Mesotrophic to eutrophic
Slope	:	0-47%
Aspect	:	Variable
Elevation	:	1 105-1 480
Number of plots	:	12

##### Soil Characteristics

Parent material	:	M, C, F
Texture (B horizon):		Moderately fine textured, moderately coarse textured
Drainage	:	Well to imperfect
pH (B horizon)	:	6.4 (4.2-8)
Soils	:	O.GL, H.LG, E.DYB, O.R, O.EB

This association occurs sporadically in the Boreal Uplands and represents a near climax successional status. As such, it covers a relatively broad range of site and soil conditions. Slopes are gentle to extreme with the extreme slopes having only one sample. Moisture conditions vary from mesic to hygric and drainage from well to imperfect.

##### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Picea glauca</b>	White spruce
	<b>Abies lasiocarpa</b>	Alpine fir

<u>Layer</u>	<u>Species</u>	
Shrub	<b>Picea glauca</b>	White spruce
	<b>Abies lasiocarpa</b>	Alpine fir
	<b>Lonicera involucrata</b>	Bracted honeysuckle
	<b>Rosa acicularis</b>	Prickly rose
	<b>Viburnum edule</b>	Low-bush cranberry
Forb	<b>Linnaea borealis</b>	Twinflower
	<b>Cornus canadensis</b>	Bunchberry
	<b>Petasites palmatus</b>	Coltsfoot
Moss	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss

White spruce and white spruce-Engelmann spruce hybrids dominate the tree canopy in this association with frequent occurrences of lodgepole pine and Alpine fir. Regeneration is mainly Alpine fir indicating that it may become a more important component of the overstory over time. The shrub layer is poorly developed with a variable species composition and low cover. The forb layer is moderately well-developed with few species being dominant. Stair-step moss, Schreber's moss and knight's plume moss share dominance in the generally well-developed moss layer.

In general this association occurs under the cool, moist conditions common to near climax stands in the region.

#### 2.3.7 Black Spruce-Lodgepole Pine/Labrador Tea-Tall Bilberry (***Picea mariana*-*Pinus contorta*/*Ledum groenlandicum*-*Vaccinium membranaceum***)

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##### Site Characteristics

Moisture regime	:	Mesic to subhygric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	1-12%
Aspect	:	Variable
Elevation	:	1 140-1 250
Number of plots	:	5

### Soil Characteristics

Parent material :  
Texture (B horizon): Moderately fine to coarse textured  
Drainage : Well to imperfect  
pH (B horizon) : 5.3 (4-6.5)  
Soils : 0.LG

This association occurs on gently sloping, well to imperfectly drained sites within the Boreal Uplands Ecoregion. Materials are generally morainal deposits. Moisture conditions are mesic to subhygric and nutrient conditions are in the mesotrophic to submesotrophic range.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Picea mariana</b>	Black spruce
	<b>Pinus contorta</b>	Lodgepole pine
Shrub	<b>Ledum groenlandicum</b>	Labrador tea
	<b>Vaccinium membranaceum</b>	Tall bilberry
	<b>Picea mariana</b>	Black spruce
	<b>Rosa acicularis</b>	Prickly rose
Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
	<b>Linnaea borealis</b>	Twinflower
	<b>Vaccinium caespitosum</b>	Dwarf bilberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss
	<b>Dicranum scoparium</b>	
Lichen	<b>Peltigera aphthosa</b>	Studded-leather lichen
	<b>Peltigera malacea</b>	

Black spruce dominates the tree canopy in this association with lodgepole pine occurring with lower cover. Black spruce is a common regeneration species indicating the successional trend. The shrub layer

is poorly developed with labrador tea dominating. The forb layer is generally sparse with bunchberry, bog cranberry, twinflower and dwarf bilberry as the only constant species. The well-developed moss layer is dominated by step moss.

This association represents a more advanced successional stage than the Lodgepole pine/Labrador tea-Tall bilberry and could be considered to be part of the same association. It is expected that succession to the black spruce-dominated phase would occur more readily on wetter sites with poorer drainage.

#### 2.3.8 Black Spruce/Horsetail/Sphagnum (Picea mariana/Equisetum spp./Sphagnum spp.)

##### Site Characteristics

Moisture regime	:	Subhydric to subhygric
Nutrient regime	:	Submesotrophic
Slope	:	0-9%
Aspect	:	Variable
Elevation	:	1 090-1 400
Number of plots	:	6

##### Soil Characteristics

Parent material	:	M, O
Texture (B horizon)	:	Not collected
Drainage	:	Moderately well to poor
pH (B horizon)	:	Not collected
Soils	:	Gleysols

This association occurs sporadically in the Boreal Uplands on level to gently sloping topography in lower slope or depressional positions. Drainage varies from moderately well to poor with poorly drained sites predominating. Sites are all hygric to subhydric, and small areas of open water are common. Nutrient regimes are expected to

be submesotrophic. Gleysolic and organic soils are typical of this association.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea mariana</i>	Black spruce
Shrub	<i>Picea mariana</i>	Black spruce
	<i>Betula glandulosa</i>	Dwarf birch
	<i>Ledum groenlandicum</i>	Labrador tea
Forb	<i>Vaccinium vitis-idaea</i>	Bog cranberry
	<i>Equisetum scirpoides</i>	Sedge-like horsetail
	<i>Petasites palmatus</i>	Coltsfoot
	<i>Mitella nuda</i>	Bishop's cap
	<i>Equisetum arvense</i>	Horsetail
Grass	<i>Carex vaginata</i>	Sheathed sedge
Moss	<i>Hylocomium splendens</i>	Stair-step moss
	<i>Aulacomnium palustre</i>	
	<i>Tomenthypnum nitens</i>	
	<i>Ptilium crista-castrensis</i>	Knight's plume moss
	<i>Pleurozium schreberi</i>	Schreber's moss

Open stands of mature black spruce having a shrub understory of dwarf birch and labrador tea, a sparse herb cover dominated by horsetails, and a moss layer dominated by several sphagnum species and stair-step moss characterize this association. The average age of the black spruce overstory (157 years) is significantly higher than that of pine-dominated associations in the Boreal Uplands Ecoregion as the former is infrequently burned. This association represents an edaphic climax on wet organic depressional sites with poor nutrient status.

2.3.9 Dwarf Birch/Sedge/Sphagnum  
(Betula glandula/Carex spp./Sphagnum spp.)

Site Characteristics

Moisture regime : Hygric to subhygric  
Nutrient regime : Mesotrophic to permesotrophic  
Slope : 0-2%  
Aspect :  
Elevation : 1 210-1 290  
Number of plots : 3

Soil Characteristics

Parent material : O, F  
Texture (B horizon): Not collected  
Drainage : Imperfect to poor  
pH (B horizon) : Not collected  
Soils : Not collected

This association occurs to a limited extent in the Boreal Uplands in poorly drained depressional areas. Moisture regime is usually hygric although somewhat drier conditions may be found depending on the depth of organic deposits.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Shrub	<b>Betula glandulosa</b>	Dwarf birch
Grass	<b>Carex spp.</b>	Sedges
Moss	<b>Aulacomium palustre</b> <b>Tomenthypnum nitens</b> <b>Sphagnum spp.</b>	Sphagnum

The shrub layer is generally well-developed in this association with dwarf birch being dominant. Tamarack occurs frequently and willow species are common. The forb layer has generally low cover with three-leaved Solomon's-seal, water avens and bog cranberry common.

Sedge species dominate the grass layer, however, species composition is variable. The moss layer is dominated by various **Sphagnum** species and **Aulacomium palustre** is constant.

This association is not very extensive in the Boreal Uplands as the topography is generally not suitable for its development.

#### 2.3.10 Dry Meadow-Fluvial

##### Site Characteristics

Moisture regime	:	Subhygric to subhydryc
Nutrient regime	:	Permesotrophic
Slope	:	0-2%
Aspect	:	
Elevation	:	1 180-1 235
Number of plots	:	4

##### Soil Characteristics

Parent material	:	F, M
Texture (B horizon):	:	Not collected
Drainage	:	Moderately well to poor
pH (B horizon)	:	Not collected
Soils	:	Regosols

This association occurs to a limited extent in the ecoregion in valley bottom locations. Moisture conditions are highly variable depending on specific site locations. The association is usually found on regosolic soils.

##### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Forbs	<b>Thalictrum venulosum</b>	Meadow rue
	<b>Mertensia paniculata</b>	Tall mertensia
	<b>Delphinium glauca</b>	Tall larkspur
	<b>Achillea millifolium</b>	Yarrow

	<b>Fragaria virginiana</b>	Wild strawberry
	<b>Galium boreale</b>	Northern bedstraw
Grass	<b>Carex aquatilis</b>	Water sedge

The shrub, forb and grass layers are all relatively well-developed in this association. Species composition and cover varies with the moisture status of each particular site. Moister sites are usually dominated by willow and dwarf birch whereas drier sites support a relatively diverse cover of forb, grass and graminoid species.

2.3.11 Trembling Aspen/Buffalo-berry/Showy Aster  
(Populus tremuloides/Shepherdia canadensis/Aster conspicuus)

Site Characteristics

Moisture regime	:	Submesic to subxeric
Nutrient regime	:	Mesotrophic
Slope	:	11-48%
Aspect	:	Southerly
Elevation	:	1 075-1 240
Number of plots	:	2

Soil Characteristics

Parent material	:	C, GL
Texture (B horizon)	:	Medium
Drainage	:	Well
pH (B horizon)	:	7.0
Soils	:	O.R

This association is found to a limited extent in the Boreal Uplands on moderate to extreme south-facing slopes. Moisture conditions are subxeric as a result of the combination of sloping topography and increased radiation received because of southerly aspects.

### Characteristic Species

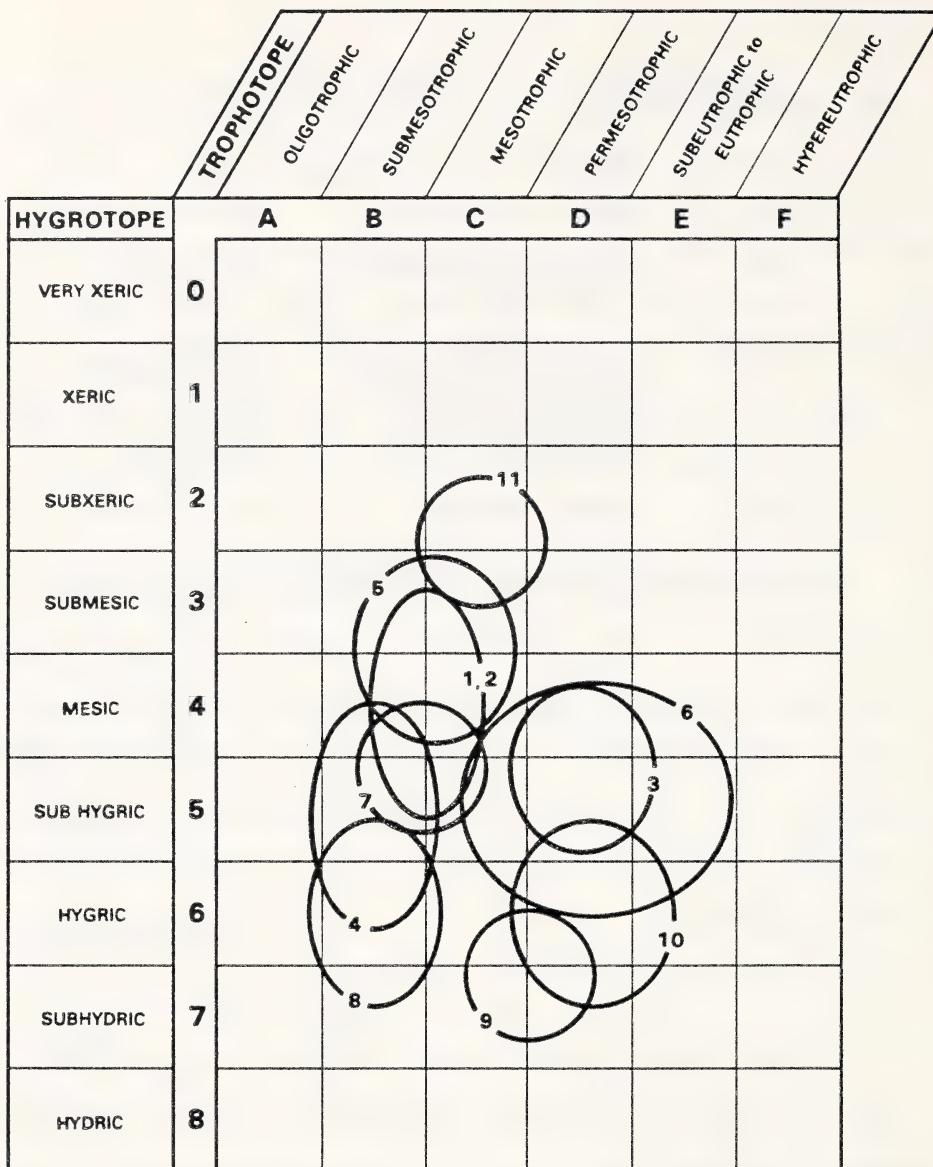
<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
Shrub	<b>Shepherdia canadensis</b>	Buffalo-berry
	<b>Rosa acicularis</b>	Prickly rose
Forb	<b>Aster conspicuus</b>	Showy aster
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
	<b>Lathyrus ochroleucus</b>	Pea vine
	<b>Castilleja miniata</b>	Indian paint brush
	<b>Fragaria virginiana</b>	Strawberry
Grass	<b>Elymus innovatus</b>	Hairy wild rye

The tree layer, which is dominated by trembling aspen, is often relatively open in this association. Lodgepole pine may form part of the overstory. The shrub layer is dominated by buffalo-berry and prickly rose, indicating the dry site conditions. The forb layer is generally relatively lush with showy aster being prominent. The grass layer is generally heavier than other associations in this ecoregion with hairy wild rye dominating. Moss cover is low, however, lichens may be present on the drier sites within this association.

This association may succeed to white spruce over time but this succession would be very slow due to the xeric conditions found on the southerly slopes.

### 2.3.12 Discussion

The distribution of plant associations within the Boreal Uplands Ecoregion is largely controlled by variation in local drainage conditions and, to some extent, by elevation. An edatopic grid showing moisture and nutrient regimes for the Boreal Uplands is presented in Figure 152.



1. Lodgepole pine / Labrador tea / Feathermoss
2. Lodgepole pine / Labrador tea - Tall bilberry
3. Lodgepole pine / Alder / Dewberry
4. Lodgepole pine / Alder / Labrador tea
5. Lodgepole pine / Twisted stalk / Feathermoss
6. White spruce / Feathermoss
7. Black spruce - Lodgepole pine / Labrador tea - Tall bilberry
8. Black spruce / Horsetail / Sphagnum
9. Dwarf birch / Sedge / Sphagnum
10. Dry meadow - fluvial
11. Trembling aspen / Buffalo-berry / Showy aster

**Figure 152: Moisture and Nutrient Regimes for Plant Associations in the Boreal Uplands Ecoregion**

The two modal associations; Lodgepole pine/Labrador tea/Feathermoss and Lodgepole pine/Labrador tea/Tall bilberry represent an elevational gradient. The latter, which is dominant at the upper elevations of the ecoregion, is transitional to the Lodgepole pine/Tall bilberry/Five-leaved bramble association of the Subalpine. The Lodgepole pine/Labrador tea/Feathermoss association is more prevalent at mid to lower elevations. Both of these associations are regenerating to either white or black spruce with black spruce being more common on the slightly moister conditions. The Black spruce- Lodgepole pine/Labrador tea/Tall bilberry association occupies very similar sites to the two previously discussed, except that site conditions are somewhat more moist. This association grades into the Black spruce/Horsetail/Sphagnum association where soils become gleysolic.

The Lodgepole pine/Alder/Labrador tea, Lodgepole pine/Alder/Dewberry and Lodgepole pine/Twisted stalk/Feathermoss associations all develop in response to variable amounts of seepage on gentle to extreme slopes. This seepage has an effect on both moisture and nutrient regimes resulting in a generally more diverse species composition. Variable amounts of soil and water movement causes large microsite variation and contributes to a complex vegetation pattern in areas where these associations occur.

The Dwarf birch/Sedge/Sphagnum and the Dry Meadow associations often occur as a complex in valley bottom locations where a combination of high water tables and cold air drainage precludes tree growth. The Dry Meadow is more common in the larger valleys near fluvial systems.

The Aspen/Buffalo-berry/Showy aster association has a limited distribution in the Boreal Uplands as it is restricted to steep south-facing slopes with dry site conditions. This association is replaced by the Lodgepole pine/Hairy wild rye association in the Subalpine and upper elevations of the Boreal Uplands.

#### 2.4 Subalpine

The Subalpine Ecoregion (Ecoregion 6, Strong and Leggat, 1982) occurs in the southerly portion of the study area (Figure 2, Vol. I). Its altitude is situated above the Boreal Uplands and below the Alpine Ecoregion. Elevations range from approximately 1 280 to 2 000 asl.

Closed coniferous forest dominates the Subalpine landscape with open stands occurring only at higher elevations where "krummholtz" forest develops. Meadow and shrubland vegetation is prevalent only in cool, moist depressional areas.

The ecoregion has a Cordilleran climate characterized by cold snowy winters and showery cool summers. Specific climatic parameters based on climatic records within the study area are shown in Appendix E.

The topography varies from rolling plateau remnants to foothill ridges and sub-parallel mountain ranges. Materials are morainal, residual and colluvial.

Lodgepole pine dominates on modal sites at lower elevations. Engelmann x white spruce, Engelmann spruce and alpine fir are a common

components of these stands and would be expected to be the successional species. The dominance of pine can be attributed largely to the extensive fire history of the area. Engelmann spruce and alpine fir become predominant at the mid and upper elevations of the Subalpine. This is probably due to the cooler, moister conditions encountered at higher elevations, which favor spruce and fir growth, as well as a lower frequency of large fires where site conditions tend to be more moist. Understory vegetation reflects the change from a boreal to subalpine climate with white-flowered rhododendron becoming dominant in the shrub layer in many stands.

Grasslands are scattered through the ecoregion on upper portions of steep south-facing slopes. These are a result of exposure effects which preclude the growth of trees. Meadow and shrubland vegetation types are encountered in valley bottom locations, usually near small drainage courses. In these instances, the combination of abundant moisture and cold air drainage presents establishment of tree species.

There are 10 associations identified for the subalpine in this study. Of these, three represent near modal conditions, three characterize xeric sites and four are found in wetter landscape positions.

The lower elevation boundary of this ecoregion in the study area is considered to be where the Lodgepole pine/White-flowered rhododendron/Feathermoss association assumes dominance on modal sites. This occurs at approximately 1 280 m. The upper boundary is defined by the absence of tree species in the Alpine Ecoregion.

2.4.1 Lodgepole Pine/White-Flowered Rhododendron/Feathermoss  
(*Pinus contorta*/Rhododendron albiflorum/Pleurozium schreberi)

Site Characteristics

Moisture regime	:	Submesic to hygric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-24%
Aspect	:	Northerly (and neutral)
Elevation	:	1 100-1 840
Number of plots	:	27

Soil Characteristics

Parent material	:	M, C, X
Texture (B horizon)	:	Moderately fine to coarse
Drainage	:	4.5 (3.3-6)
pH (B horizon)	:	
Soils	:	BR.GL, O.LG, E.EB, E.DYM, O.GL, GLBR.GL

This association is widespread on gently sloping areas with generally northerly aspects in the study area. While elevations range from 1 100-1 820 m, the association becomes prevalent only above approximately 1 300 m. The moraine deposits are of both continental and cordilleran origin and are generally underlain by saprolite or bedrock. Brunisolic and luvisolic soils occur most commonly in conjunction with this association. Textures range from moderately fine to coarse but are mainly moderately fine to medium textured and sites are well to moderately well drained.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Pinus contorta</i>	Lodgepole pine
Shrub	<i>Rhododendron albiflorum</i>	White-flowered rhododendron
	<i>Ledum groenlandicum</i>	Labrador tea
	<i>Vaccinium membranaceum</i>	Tall bilberry
	<i>Abies lasiocarpa</i>	Alpine fir

<u>Layer</u>	<u>Species</u>	
Forb	<b>Cornus canadensis</b>	Bunchberry
	<b>Rubus pedatus</b>	Five-leaved bramble
	<b>Vaccinium vitis-idaea</b>	Bog cranberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss
	<b>Hylocomium splendens</b>	Stair-step moss

The tree layer is dominantly lodgepole pine with minor occurrences of Alpine fir, black spruce, Engelmann spruce and white spruce-Engelmann spruce hybrids. Regeneration by Alpine fir and Engelmann and black spruce indicate eventual succession to these species. The shrub layer is dominated by white-flowered rhododendron, labrador tea and tall bilberry. False azalea (*Menziesia ferruginea*) replaces white-flowered rhododendron as the dominant shrub in some plots of this association (mainly to the east of the Smoky River). The forb layer is poorly developed with only bunchberry, five-leaved bramble and bog cranberry occurring consistently. Feathermosses such as Schreber's moss, knight's plume moss and stair-step moss dominate the well-developed moss layer.

#### 2.4.2 Engelmann Spruce-Alpine Fir/White-Flowered Rhododendron/Feathermoss (*Picea engelmanni*-*Abies lasiocarpa*/*Rhododendron albiflorum*/*Pleurozium*)

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##### Site Characteristics

Moisture regime	:	Submesic to hygric
Nutrient regime	:	Submesotrophic eutrophic
Slope	:	2-38%
Aspect	:	Variable
Elevation	:	1 325-1 820
Number of plots	:	9

##### Soil Characteristics

Parent material	:	M, X
Texture (B horizon):	:	Medium to moderately coarse

Drainage	:	Well to poor
pH (B horizon)	:	6.3 (4.5-8.0)
Soils	:	0.G, 0.LG

This association has a limited distribution over a wide range of site and soil conditions in the Ecoregion. Elevations range from 1 325-1 820 and slopes and aspects are variable. Materials are generally morainal or saprolite. At sites where soils were sampled, gleysols were found. However, this association would also be expected to occur on brunisolic and luvisolic soils.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Picea engelmanni</b>	Engelmann spruce
	<b>Abies lasiocarpa</b>	Alpine fir
Shrub	<b>Rhododendron albiflorum</b>	White-flowered rhododendron
	<b>Vaccinium membranaceum</b>	Tall bilberry
Forb	<b>Orthilia secunda</b>	One-sided winter- green
	<b>Rubus pedatus</b>	Five-leaved bramble
	<b>Cornus canadensis</b>	Bunchberry
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Hylocomium splendens</b>	Stair-step moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss

The tree layer consists of a mixture of Engelmann spruce and Alpine fir with minor occurrence of lodgepole pine. Regeneration is mainly Alpine fir with minor occurrences of Engelmann spruce. White-flowered rhododendron and tall bilberry dominate the well-developed shrub layer. The forb layer is generally poorly developed with one-sided wintergreen, five-leaved bramble and bunchberry being the dominant species. Feathermoss cover is generally moderate and lichens are often present with variable cover.

This association represents the climax vegetation type of the Lower Subalpine. It is restricted in occurrence because of the high frequency of fires and the predominance of Lodgepole pine dominated seral stages of succession.

2.4.3 Engelmann Spruce-Alpine Fir/Red Heather  
(*Picea engelmanni*-*Abies lasiocarpa*/*Phyllodoce empetriformis*)

Site Characteristics

Moisture regime	:	Mesic to submesic
Nutrient regime	:	Submesotrophic
Slope	:	7-28%
Aspect	:	Northerly
Elevation	:	1 840-2 040
Number of plots	:	3

Soil Characteristics

Parent material	:	Colluvium
Texture (B horizon)	:	Not collected
Drainage	:	Moderately well to well
pH (B horizon)	:	Not collected
Soil	:	Not collected

This association occurs to a limited extent at the upper elevations of the subalpine ecoregion on gently to strongly sloping topography. Moisture regimes vary from mesic to submesic due to the coarse materials found at these elevations. Northerly aspects are characteristic; associations found on south slopes at these elevations would reflect much drier conditions.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Picea engelmanni</i></b>	Engelmann spruce
	<b><i>Abies lasiocarpa</i></b>	Alpine fir

<u>Layer</u>	<u>Species</u>	
Shrub	<b>Abies lasiocarpa</b>	Subalpine fir
Forb	<b>Cassiope tetragona</b>	White mountain heather
	<b>Phyllodoce empetriformis</b>	Red heather
Moss	<b>Dicranum scoparium</b>	
Lichen	<b>Cladonia ecmocyna</b>	

The tree canopy is usually open in this association with Engelmann spruce and alpine fir occurring with low cover. At upper elevations the tree species occur as krummholtz colonies. The shrub layer is very poorly developed with only spruce and fir regeneration occurring frequently. The forb layer is dominated by heathers with sporadic occurrence of plants often found in the alpine such as Sibbaldia (Sibbaldia procumbens) and mountain arnica (Arnica latifolia). Moss and lichen cover is generally low.

#### 2.4.4 Lodgepole Pine/Tall Bilberry/Five-Leaved Bramble (Pinus contorta/Vaccinium membranaceum/Rubus pedatus)

##### Site Characteristics

Moisture regime	:	Submesic to hygric
Nutrient regime	:	Submesotrophic-mesotrophic
Slope	:	2-36%
Aspect	:	Variable
Elevation	:	1 310-1 550
Number of plots	:	15

##### Soil Characteristics

Parent material	:	M, C
Texture (B horizon):	:	Not collected
Drainage	:	Well to poor
pH (B horizon)	:	4.5 (1 plot)
Soils	:	Brunisols, luvisols

This association is common at the lower elevations of the subalpine ecoregion on gentle slopes. Materials are predominantly moraine veneers and blankets overlying bedrock. Brunisolic and luvisolic soils would be expected to be dominant although soil pits were not done at the majority of plots.

#### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Vaccinium membranaceum</i></b>	Tall bilberry
	<b><i>Ledum groenlandicum</i></b>	Labrador tea
Forb	<b><i>Cornus canadensis</i></b>	Bunchberry
	<b><i>Rubus pedatus</i></b>	Five-leaved bramble
	<b><i>Vaccinium vitis-idaea</i></b>	Bog cranberry
Moss	<b><i>Pleurozium schreberi</i></b>	Schreber's moss
	<b><i>Ptilium crista-castrensis</i></b>	Knight's plume moss
	<b><i>Hylocomium splendens</i></b>	Stair-step moss
Lichen	<b><i>Peltigera aphthosa</i></b>	Studded-leather lichen

The tree layer is well-developed in this association with lodgepole pine dominating. Black spruce, alpine fir and Engelmann spruce occur sporadically in the tree layer and as regeneration indicating probable succession to these species. The shrub layer is well-developed and consists mainly of the ericaceous shrubs, tall bilberry and Labrador tea. These are indicative of the acidic, cool conditions found in the ecoregion. Bunchberry, five-leaved bramble and bog cranberry are the most common components of the poorly developed forb layer. Mosses are abundant and Schreber's moss, Knights plume moss and stair-step moss being dominant. Lichens occur sporadically, however, *Peltigera aphthosa*

is the only species that occurs consistently.

2.4.5 Black Spruce-Lodgepole Pine/Tall Bilberry  
(*Picea mariana*-*Pinus contorta*/*Vaccinium membranaceum*)

Site Characteristics

Moisture regime	:	Mesic to hygric
Nutrient regime	:	Submesotrophic to oligotrophic
Slope	:	2-5%
Aspect	:	Variable
Elevation	:	1 380-1 420
Number of plots	:	4

Soil Characteristics

Parent material	:	M, X
Texture (B horizon)	:	Not collected
Drainage	:	Moderately well to imperfect
pH (B horizon)	:	Not collected
Soils	:	Not collected

This association occurs sporadically in the subalpine ecoregion on gently sloping or level areas with variable aspects. In general, drainage is somewhat impeded at these sites, varying from moderately well to imperfect. The association is restricted to the lower elevations of the subalpine zone and actually overlaps into the Boreal Uplands Ecoregion.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea mariana</i> <i>Pinus contorta</i>	Black spruce Lodgepole pine
Shrub	<i>Ledum groenlandicum</i> <i>Vaccinium membranaceum</i> <i>Picea mariana</i>	Labrador tea Tall bilberry Black spruce
Forb	<i>Cornus canadensis</i> <i>Vaccinium vitis-idaea</i> <i>Linnaea borealis</i> <i>Rubus pedatus</i>	Bunchberry Bog cranberry Twinflower Five-leaved bramble

<u>Layer</u>	<u>Species</u>	
Moss	<b>Pleurozium schreberi</b>	Schreber's moss
	<b>Ptilium crista-castrensis</b>	Knight's plume moss
	<b>Hylocomium splendens</b>	Stair-step moss
Lichens	<b>Peltigera aphthosa</b>	Studded-leather lichen

The tree layer is dominated by black spruce with minor occurrences of lodgepole pine and alpine fir. Regeneration to black spruce and alpine fir indicates the community is fairly stable in a successional sense. It would be expected that the proportion of lodgepole pine would decrease with time and that alpine fir would increase. The shrub layer is moderate and dominated by the ericaceous shrubs labrador tea and tall bilberry. The sparse forb layer is dominated by bunchberry, bog cranberry and twinflower with lesser occurrence of five-leaved bramble. The moss layer is generally heavy, with Schreber's moss being dominant.

The occurrence of a very similar association (Black spruce-Pinus contorta/Labrador tea/Tall bilberry) in the Boreal Uplands suggests that the edaphic factor of imperfect soil drainage is a large influence on the distribution of this association.

#### 2.4.6 Engelmann x White Spruce/Feathermoss (Picea engelmanni x Glauca/Hylocomium splendens)

##### Site Characteristics

Moisture regime	:	Mesic to hygric
Nutrient regime	:	Mesotrophic to submesotrophic
Slope	:	0-13
Aspect	:	Northerly
Elevation	:	1 360-1 580
Number of plots	:	4

### Soil Characteristics

Parent material : Colluvium, moraine, fluvial  
Texture (B horizon): Not collected  
Drainage : Moderately well to well  
pH (B horizon) : Not collected  
Soils : Not collected

This association occurs to a limited extent on generally northerly aspects at lower elevations of the Subalpine Ecoregion within the study area. Drainage varies from moderately to well, however, the association could be expected on slightly moister sites. Parent materials are variable. Aspect seems to be most important in controlling the distribution of this association.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Picea engelmanni</i> x <i>glauca</i>	Engelmann x white spruce
	<i>Abies lasiocarpa</i>	Alpine fir
Shrub	<i>Abies lasiocarpa</i>	Alpine fir
Forb	<i>Cornus canadensis</i>	Bunchberry
	<i>Petasites palmatus</i>	Coltsfoot
	<i>Orthilia secunda</i>	One-sided wintergreen
	<i>Equisetum scirpoides</i>	Horsetail
	<i>Mitella nuda</i>	Bishop's cap
Moss	<i>Hylocomium splendens</i>	Stair-step moss
	<i>Pleurozium schreberi</i>	Schreber's moss
	<i>Ptilium crista-castrensis</i>	Knight's plume moss
	<i>Dicranum scoparium</i>	
Lichen	<i>Peltigera aphthosa</i>	Studded-leather lichen
	<i>Cladonia chlorophaea</i>	

Engelmann x white spruce and alpine fir constitute the overstory of stands belonging to this association. The poorly developed shrub layer consists mainly of alpine fir. Forbs typical of moist shady sites

characterize the forb layer which is also poorly developed. Grasses are present but with very low cover. The moss layer generally has high cover and feathermosses are important constant species. At higher elevations, the lichen layer is relatively diverse but coverage is low.

#### 2.4.7 Lodgepole Pine/Hairy Wild Rye (*Pinus contorta*/*Elymus innovatus*)

##### Site Characteristics

Moisture regime	:	Submesic to xeric
Nutrient regime	:	Submesotrophic
Slope	:	15-58%
Aspect	:	Southerly
Elevation	:	1 330-1 680
Number of plots	:	7

##### Soil Characteristics

Parent materials	:	C, M
Texture (B horizon):	:	Moderate fine textured (1 plot)
Drainage	:	Moderately well to rapid
pH (B horizon)	:	5.1 (1 plot)
Soils	:	0.GL (1 plot)

This association occurs to a limited extent on strong to extreme slopes with southerly aspect. Moisture regimes are dominantly subxeric although the association does occur on moister and drier sites. The combination of steep slopes and increased solar insolation due to south aspects interacts to form communities that reflect the dry nature of these sites.

##### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b><i>Pinus contorta</i></b>	Lodgepole pine
Shrub	<b><i>Rosa acicularis</i></b>	Prickly rose

<u>Layer</u>	<u>Species</u>	
Forb	<b>Linnaea borealis</b>	Twinflower
	<b>Arnica cordifolia</b>	Heart-leaved arnica
	<b>Cornus canadensis</b>	Bunchberry
	<b>Epilobium angustifolium</b>	Fireweed
Grass	<b>Elymus innovatus</b>	Hairy wild rye
Moss	<b>Pleurozium schreberi</b>	Schreber's moss

Lodgepole pine dominates the tree layer in this association. Tree regeneration is generally poor and it is expected that succession to spruce would be slow due to the dry nature of these sites. The shrub layer is poorly developed and highly variable in composition. The only dominant species is prickly rose. The forb layer is again highly variable, due to microsite conditions, however, the overall composition reflects the dry site conditions. The grass layer is better developed than most of the other forested associations with hairy wild rye dominating. Schreber's moss is dominant in the relatively poorly developed moss layer. Lichen spp. are often present as a reflection of the dry site conditions.

This association is not as common in the study area as it is further south in the ecoregion; probably because of the cooler moisture conditions that are prevalent in this area. The topography in the area is also such that southerly slopes are not as common as they are further south where the foothill ridges are all trending in a NW-SE direction.

2.4.8 Dwarf Birch/Sedge/Sphagnum  
(Betula glandulosa/Carex spp./Sphagnum spp.)

Site Characteristics

Moisture regime	:	Subhygric to subhydric
Nutrient regime	:	Mesotrophic to permesotrophic
Slope	:	0-10%
Aspect	:	Variable
Elevation	:	1 335-1 590
Number of plots	:	16

Soil Characteristics

Parent material	:	O, M
Texture (B horizon)	:	Not collected
Drainage	:	Imperfect to poor
pH (B horizon)	:	Not collected
Soils	:	Not collected

This association has limited distribution in the ecoregion as it is restricted to depressional and valley bottom locations. The excess of soil moisture and the microclimatic influence of cold air drainage and pooling are likely the dominant factors affecting the development of the association. Organic soils or organic veneers over other parent materials are commonly found, and drainage is usually poor or imperfect.

Characteristic Species

<u>Layer</u>	<u>Species</u>	
Shrub	<b>Betula glandulosa</b> <b>Salix spp.</b>	Dwarf birch Willow
Forb	<b>Rubus arcticus</b>	Dwarf raspberry
Grass	<b>Carex aquatilis</b>	Water sedge
Moss	<b>Aulacomnium plaustre</b> <b>Tomenthypnum nitens</b> <b>Sphagnum warnstorffii</b>	

The shrub layer is generally well-developed in this association, with dwarf birch and a number of willow species occurring with variable cover. Composition of the forb layer depends on site moisture conditions. A variety of sedges may be found in this association, but *Carex aquatilis* is generally dominant. Moss layer composition is variable; however, the species present tend to indicate an "intermediate fen" condition, which is probably due to the influx of seepage water at these sites.

#### 2.4.9 Dry Meadow Fluvial

##### Site Characteristics

Moisture regime	: Subhygric to subhydryc
Nutrient regime	: Mesotrophic to permesotrophic
Slope	: 0-2%
Aspect	: Variable
Elevation	: 1 350-1 500
Number of plots	: 3

##### Soil Characteristics

Parent material	: F, M
Texture (B horizon):	Not collected
Drainage	: Moderately well to poor
pH (B horizon)	: Not collected
Soils	: Cumulic fibrisol (1 plot)

This association occurs sporadically in the Subalpine Ecoregion on level to nearly level topography usually in association with creek valleys. The moisture regime at these sites is often subhygric although wetter conditions may prevail. Cold air drainage is thought to be a factor in the development of these communities as they develop in valley bottom locations. The association represents a slightly drier condition than the Dwarf birch/Sedge spp./Sphagnum spp. association previously described.

The species composition of this vegetation type is somewhat variable depending on site specific moisture conditions. Willows are common in the shrub layer, however, their cover is variable. The forb layer is well-developed but few species occur consistently.

The grass layer is also variable with tufted hair grass (*Deschampsia caespitosa*), mountain timothy (*Phleum commutatum*) and reed grass (*Calamagrostis canadensis*) occurring frequently. The moss layer is moderately well-developed with *Aulacomnium palustre* and *Tomenthypnum nitens* occurring with variable cover.

#### 2.4.10 Subalpine Grassland

##### Site Characteristics

Moisture regime	: Very xeric to xeric
Nutrient regime	: Oligotrophic to submesotrophic
Slope	: 9-54%
Aspect	: Southwest
Elevation	: 1 690-1 820
Number of plots	: 2

##### Soil Characteristics

Parent material	: Residual
Texture	: Not collected
Drainage	: Rapid to well
pH (B horizon)	: Not collected
Soils	: Not collected

This association occurs to a very limited extent in the study area on gently to extremely sloping, southwest facing ridge tops with thin soils. The formation of these grasslands is due to the exposure effects of wind and high solar insolation. Moisture conditions are xeric.

### Characteristic Species

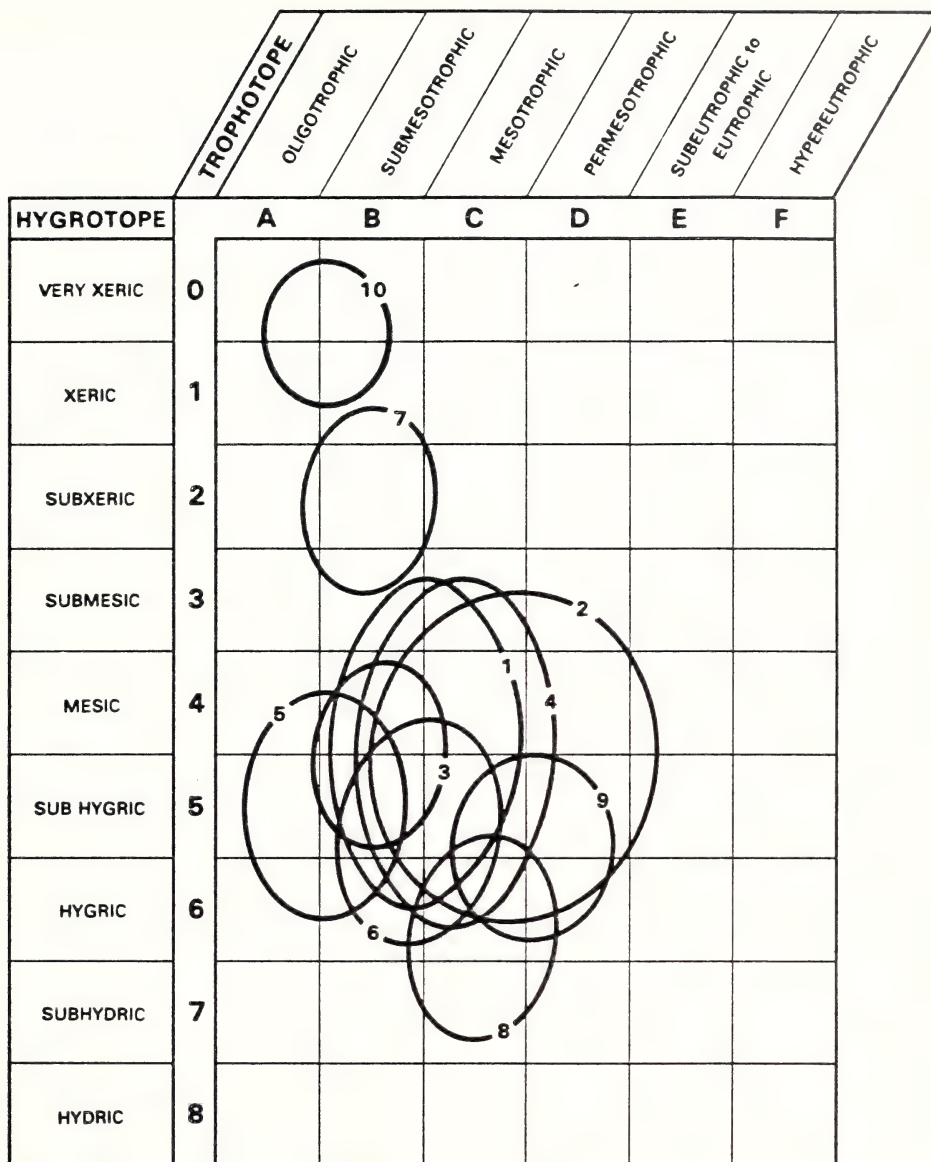
<u>Layer</u>	<u>Species</u>	
Shrub	<i>Rosa acicularis</i>	Prickly rose
Forb	<i>Arctostaphylos uva-ursi</i>	Bearberry
	<i>Oxytropis splendens</i>	Showy locoweed
	<i>Saxifraga tricuspidata</i>	
	<i>Hedysarum alpinum</i>	Alpine hedysarum
	<i>Dryas octopetala</i>	White dryad
Grass	<i>Elymus innovatus</i>	Hairy wild rye

Vegetation is generally sparse at these sites due to the dry exposed site conditions. The composition reflects these conditions as most species are typically associated with dry sites. Prickly rose, bearberry, showy locoweed and hairy wild rye are the commonly occurring species.

These sites have similar vegetation composition to meadow communities in the alpine ecoregion. However, such species as prickly rose and buffalo-berry would not generally be encountered at the higher elevations.

#### 2.4.11 Discussion

Aspect, exposure, elevation and drainage are important factors governing the distribution of vegetation associations in the subalpine. An edatopic grid showing moisture and nutrient relationships is shown in Figure 153. The aspect and exposure influences are most evident in areas of steeper topography where dry southwesterly slopes support the Pine/Hairy wild rye association which grades into the Subalpine grassland on exposed ridge top locations. Northerly aspects generally have a



- |   |   |
|---|---|
| 1. Lodgepole pine / White - flowered rhododendron / Feathermoss                   | 6. Engelmann white spruce / Feathermoss |
| 2. Engelmann spruce - Subalpine fir / White - flowered rhododendron / Feathermoss | 7. Lodgepole pine / Hairy wild rye      |
| 3. Engelmann spruce - Subalpine fir / Red heather                                 | 8. Dwarf birch / Sedge / Sphagnum       |
| 4. Lodgepole pine / Tall bilberry / Five - leaved bramble                         | 9. Dry meadow - Fluvial                 |
| 5. Black spruce - Lodgepole pine / Tall bilberry                                  | 10. Subalpine grassland                 |

**Figure 153: Moisture and Nutrient Regimes for Plant Associations in the Subalpine Ecoregions**

higher component of spruce than pine. The Engelmann spruce-Alpine fir/Red heather, Engelmann x White spruce/White-flowered rhododendron and Engelmann x White spruce/Feathermoss associations are more prevalent on these slightly moister north aspects.

The influence of internal drainage is expressed in the gradient of associations from the modal Lodgepole pine/White-flowered rhododendron and Lodgepole pine/Tall bilberry to the subhygric Black spruce-Pine/Tall bilberry, to the hygric meadow-fluvial vegetation type which represents a unique combination of moisture, materials and microclimate influences in cold air drainage.

## 2.5 Alpine

The Alpine Ecoregion (Ecoregion 7, Strong and Leggat 1982) occurs in the southwestern corner of the study area (Figure 2, Vol. I) generally above 2 000 m asl.

In the Lower Alpine, willow and dwarf birch communities and "islands" of krumholtz occur. The Middle Alpine is characterized by relatively continuous heather and snowbed communities, while the Upper Alpine is poorly vegetated due to the cool summer temperatures and exposure to wind. Rocky outcrops and stonefield lichen communities are typical of the Alpine Ecoregion.

This ecoregion has a more severe Cordilleran climate than the Subalpine. The overriding climatic elements which characterize the Alpine are strong winds, long winters, and cool summers. Below freezing temperatures are common, even during the warmest months. Precipitation

is high during all months, with a tendency for greater precipitation during winter. As there is no overstory vegetation, the surface displays a highly variable microclimate. During summer, the climate of steep south-facing slopes differs markedly from that of the north-facing slopes. During winter, southwest to northwest-facing slopes may be completely snow-free, whereas east aspects or protected pockets may have snow cover several metres deep, possibly lasting well into summer, or even year-round. Specific climatic data for stations within the Subalpine are given in Appendix E.

Vegetation collected in the Alpine was not sorted into plant associations due to the small number of plots sampled. However, a listing of vegetation composition for specific plots is given in Appendix D.

## 2.6 Montane

The area along the Smoky River up to its confluence with Sheep Creek in the southern portion of the study has a unique vegetation pattern that is not typical of the other ecoregions. The influence of chinook winds along the river valley has allowed the development of grassland communities intermixed with aspen and lodgepole pine stands which have understories reflecting dry site conditions. This area has been described as Montane (Figure 2, Vol, I) as it does resemble Montane conditions found in river valleys further south in the province in the Athabasca, North Saskatchewan and Bow River valleys.

Only two vegetation associations have been sampled in this area.

The grassland communities in the area were not sampled, however, they are relatively common on steep exposed slopes.

#### 2.6.1 Trembling Aspen/Prickly Rose/Hairy Wild Rye (Populus tremuloides/Rosa acicularis/Elymus innovatus)

##### Site Characteristics

Moisture regime	: Submesic to mesic
Nutrient regime	: Mesotrophic to eutrophic
Slope	: 3-54%
Aspect	: Variable
Elevation	: 1 060-1 310 m asl
Number of plots	: 7

##### Soil Characteristics

Parent material	: Fluvial, moraine, colluvium
Texture (B horizon)	: Moderately fine to medium
pH (B horizon)	: 4.5-7.0
Soils	: O.EB, BR.GL, O.GL

This association occurs on submesic to mesic sites at Boreal Uplands elevations. It is subject to moderating influences of chinook winds which are prevalent in the area. Slopes are variable at these sites as is aspect indicating that the effects of drying winds are an important factor in the distribution of the association.

##### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<b>Populus tremuloides</b>	Trembling aspen
Shrub	<b>Rosa acicularis</b>	Prickly rose
Forb	<b>Epilobium angustifolium</b>	Fireweed
	<b>Fragaria virginiana</b>	Wild strawberry
	<b>Lathyrus ochroleucus</b>	Peavine
	<b>Vicia americana</b>	Wild vetch
	<b>Aster ciliolatus</b>	Lindley's aster
	<b>Aster conspicuus</b>	Showy aster
	<b>Thalictrum venulosum</b>	Veiny meadow rue

<u>Layer</u>	<u>Species</u>	
	<b>Delphinium glaucum</b>	Tall larkspur
	<b>Pyrola asarifolia</b>	Common pink winter-green
	<b>Galium boreale</b>	Northern bedstraw
Grass	<b>Elymus innovatus</b>	Hairy wild rye

This association is characterized by a dense overstory of dominantly trembling aspen. The shrub stratum is not well-developed but contains mainly prickly rose. The forb layer is prominent with several species present, although fireweed is dominant. The grass layer is well-developed and is composed mainly of hairy wild rye. The moss layer is sparse and contains no single dominant. Terrestrial lichens are absent.

#### 2.6.2 Lodgepole Pine-Trembling Aspen/Bearberry (Pinus contorta-Populus tremuloides/Arctostaphylos uva-ursi)

##### Site Characteristics

Moisture regime	:	Subxeric to xeric
Nutrient regime	:	Mesotrophic
Slope gradient	:	22-54%
Aspect	:	S, SW
Elevation	:	1 530-1 820 m asl
Number of plots	:	3

##### Soil Characteristics

Parent material	:	C, M
Texture (B horizon):	:	Coarse to medium textured
Drainage	:	Well
pH (B horizon)	:	4.5
Soils	:	E.DYB

This association occurs on dry exposed south-facing slopes at Subalpine elevations. It is subject to the moderating influences of

chinook winds which in combination with southerly slopes creates a warmer microclimate than usual for these elevations.

### Characteristic Species

<u>Layer</u>	<u>Species</u>	
Tree	<i>Pinus contorta</i> <i>Populus tremuloides</i> <i>Populus balsamifera</i> <i>Picea engelmannii</i> x <i>glauca</i>	Lodgepole pine Trembling aspen Balsam poplar Engelmann x white spruce
Shrub	<i>Salix</i> spp.	Willow
Forb	<i>Arctostaphylos uva-ursi</i> <i>Achillea millefolium</i> <i>Artemesia norvegica</i> <i>Cornus canadensis</i> <i>Solidago multiradiata</i> <i>Epilobium angustifolium</i> <i>Antennaria rosea</i> <i>Castilleja miniata</i>  <i>Erigiron peregrinus</i> <i>Campanula rotundifolia</i> <i>Castilleja occidentalis</i> <i>Antennaria racemosa</i> <i>Fragaria virginiana</i> <i>Gentianella amarella</i>	Bearberry Common yarrow Wormwood Bunchberry Goldenrod Fireweed Pink pussy-toes Common red paint- brush Fleabane Harebell Indian paintbrush Pussy-toes Wild strawberry Felwort
Grass	<i>Elymus innovatus</i> <i>Trisetum spicatum</i>	Hairy wild rye Spike trisetum
Lichen	<i>Peltigera malacea</i>	

This association, due to the dry nature of the sites and high elevations, has very stunted trees. The tree canopy is very open and trembling aspen and lodgepole pine are found mostly in the shrub layer. The forb layer is well-developed and dominated by bearberry. The grass stratum is sparse and there is no dominant species. The moss and lichen are also very poorly developed.

APPENDIX B  
EXPLANATION OF DATA ANALYSIS

APPENDIX B  
FORAGE INVENTORY DATA ANALYSIS METHODS

KLINKA-PHELPS VEGETATION PROGRAM

This is a FORTRAN program written by Susan Phelps to produce vegetation and summary tables from a file of releve data. It was developed for the Research Branch, B.C. Ministry of Forests and revised for the Alberta Forest Service. The explanation of the tables generated by this program has been split into two parts, the vegetation tables and the summary tables.

Vegetation Tables

The vegetation tables summarize and average the plots within each plant association. This part of the program essentially collects and prints the percent cover and vigor for each species in each layer of every plot. An average value for percent cover (Mean Cover) and a percent frequency of occurrence (Presence) is given for each species, layer by layer, within each plant association. A sample printout of the vegetation form follows.

Ecoregion: Derived from Ecoregions of Alberta (Strong and Leggat)

Association: Arrived at using a minimum of 80% presence and 10% mean cover.

The ecoregion designation appears in the upper left corner under zone. Codes are as follows:



MW	Mixedwood
BF	Boreal Foothills
BV	Boreal Uplands
SA	Subalpine
A	Alpine
MO	Montane

The association name is based on significant plant species within each layer. The layers are as follows:

- A<sub>1</sub> - main tree canopy
- A<sub>2</sub> - understory trees over 5.0 m tall
- E - epiphytes
- B<sub>1</sub> - tall shrubs and tree regeneration - 2.5-5.0 m tall
- B<sub>2</sub> - low shrubs and tree regeneration less than 2.5 m tall
- C - forb species
- G - grass species
- D - moss species
- L - lichen species

Other calculated parameters and their definitions are listed below

%P: Percent Presence

- : ranges from greater than 0 to a maximum of 100 (present in all plot).
- = no. of plots that species is present in ÷ total no. of plots for the type x 100.
- = percent frequency

MC: Mean Cover

- : ranges from greater than 0 to a maximum of 100 (total cover in all plots).

= total cover values for each plot - total no. of plots for the type.

%C: Percent Cover

: ranges from 0 to 100 (not present in plot to total cover)

: measured value

S: Sociability

: not measured

V: Vigour

: 0 = dead

1 = poor

2 = fair

3 = good

4 = excellent

### Summary Tables

These tables constitute a comparison between the plant associations determined by the vegetation tables. This part of the program takes the Mean Cover (MC) and Percent Presence (%P) for each type and lists them species by species alphabetically. Mean Cover has been renamed Mean Species Significance and the Percent Presence converted to a Presence Class.

Mean species significance classes are as follows:

<u>Percent Presence</u>	<u>Mean Species Significance</u>
Greater than 0% to 20%	I
Greater than 20% to 40%	II
Greater than 40% to 60%	III
Greater than 60% to 80%	IV
Greater than 80% to 100%	V

ECOSYSTEMATIC UNITS	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	MW 11
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
ARIE BAL	I 0.0	I 0.2	I 0.1				I 0.4	IV 1.0	II 0.3	I 0.2	III 0.5
ARIF LAS	I 0.1									II 0.4	
ACHI MIL											
ACON DEL	I 0.0		I 0.2	II 0.3	I 0.2						
ACTA RUB											
AGRO SCA											
AGRO TRA											
ALEC SAR											
ALNU CRI	I 0.9	II 0.5	II 1.7								
ALNU TEN	I 0.4	I 0.8	III 2.8								
AMBL SER											
AMEL ALN	III 0.9	IV 1.2	II 0.8	V 13.3	II 0.6	III 0.8	I 0.1	II 4.7	I 0.1	I 0.2	
ANAS HEL											
ANDR POL											
ANEM LIT											
ANEM PAR											
ANTE MED											
ANTE MIC											
ANTE NEG									I 0.4		
ANTE RAC											
ANTE ROS											
ARAL NUD	III 6.3	V 2.2	IV 6.8	V 17.0	V 13.2						
ARCT RUB											
ARCT UVA	I 0.3	I 3.0				IV 7.0	III 0.4	V 14.3		I 3.8	
ARNI CHA											
ARNI COR	II 0.4		I 0.2		III 1.2				I 0.1		
ARNI LAT											
ARNI RYD											
ARTE NOR											
ARTE CIL	II 0.4		II 0.3								
ARTE CON	IV 3.5	V 2.3	III 1.4	III 1.3	V 3.6		II 0.9	IV 2.3		II 0.6	
ARTE HES										I 0.6	
ARTE LAE											
ARTE PUN											
ARTE SIB											
ARTE SPP	I 0.1			II 0.3							
ARTE SUB			I 0.1								
ARTE AME			I 0.1								
ASTR AME											
ASTR STR											
ATHV FIL											
AULA PAL	I 0.1								I 0.1		III 1.0
BARB HAT											
BARB LYC							I 0.1		I 0.1		
BAZZ TRI											
BETU GLA									I 0.4		I 0.2
BETU OCC								II 0.7			I 0.2
BETU PAP	I 0.1							IV 1.3	I 0.1	II 2.0	
BETU PUM	I 0.3	I 1.7	II 0.6	III 1.5	I 2.0		I 0.1				I 0.2
BETU SPP											
BETR VIR											

These tables function as a summary of the plant species for all associations and allow comparisons of the significant species for each association.

#### ENVIRONMENT/SOILS - VEGETATION TABLES

These tables present site data for each association and give mean values for selected parameters. Explanations of selected factors are given below.

##### Ecological Moisture Regime

VX	Very xeric
X	Xeric
SX	Subxeric
SM	Submesic
M	Mesic
SHG	Subhygric
HG	Hygric
SHD	Subhydric
HD	Hydric

##### Nutrient Regime

O	Oligotrophic
SM	Submesotrophic
M	Mesotrophic
PM	Permesotrophic
E	Eutrophic
HE	Hypereutrophic

Other soil parameters are explained in either the PLC legend on maps accompanying this report or are according to CSSC (1978) standards. Biomass data was not collected in this study therefore no values are given.

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APPENDIX C  
SPECIES LIST

APPENDIX C  
SPECIES LIST

A-Layer

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ABIE BAL	<i>Abies balsamifera</i>	Balsam Fir
ABIE LAS	<i>Abies lasiocarpa</i>	Alpine Fir
BETU PAP	<i>Betula papyrifera</i>	Paper Birch
LARI LAR	<i>Larix laricina</i>	Tamarack
PICE ENE	<i>Picea engelmannii</i> x <i>P. glauca</i>	Engelmann-White Spruce Hybrid
PICE ENG	<i>Picea engelmannii</i>	Engelmann Spruce
PICE GLA	<i>Picea glauca</i>	White Spruce
PICE MAR	<i>Picea mariana</i>	Black Spruce
PINU BAN	<i>Pinus banksiana</i>	Jack Pine
PINU CON	<i>Pinus contorta</i> v. <i>latifolia</i>	Lodgepole Pine
POPU BAL	<i>Populus balsamifera</i>	Balsam Poplar
POPU TRE	<i>Populus tremuloides</i>	Trembling Aspen

B-Layer

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ALNU CRI	<i>Alnus crispa</i>	Green Alder
ALNU TEN	<i>Alnus tenuifolia</i>	River Alder
AMEL ALN	<i>Amelanchier alnifolia</i>	Saskatoon Berry
BETU GLA	<i>Betula glandulosa</i>	Dwarf Birch
BETU OCC	<i>Betula occidentalis</i>	Water Birch
BETU PUM	<i>Betula pumila</i>	Swamp Birch
CORN STO	<i>Cornus stolonifera</i>	Red Osier Dogwood
CORY COR	<i>Corylus cornuta</i>	Beaked Hazelnut
JUNI COM	<i>Juniperus communis</i>	Ground Juniper
LEDU GRO	<i>Ledum groenlandicum</i>	Labrador Tea
LONI DIO	<i>Lonicera dioica</i>	Twining Honeysuckle
LONI INV	<i>Lonicera involucrata</i>	Bracted Honeysuckle
MENZ FER	<i>Menziesia ferruginea</i>	False Azalea
OPLO HOR	<i>Oplopanax horridum</i>	Devil's Club
PRUN PEN	<i>Prunus pensylvanica</i>	Pin Cherry
PRUN VIR	<i>Prunus virginiana</i>	Choke Cherry
RHOD ALB	<i>Rhododendron albiflorum</i>	White-flowered Rhododendron
RIBE AME	<i>Ribes americanum</i>	Wild Black Currant
RIBE HIR	<i>Ribes hirtellum</i>	Wild Gooseberry
RIBE INE	<i>Ribes inerme</i>	
RIBE LAC	<i>Ribes lacustre</i>	Bristly Black Currant
RIBE OXY	<i>Ribes oxycanthoides</i>	Wild Gooseberry
RIBE TRI	<i>Ribes triste</i>	Wild Red Currant

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ROSA ACI	<i>Rosa acicularis</i>	Prickly Rose
RUBA IDA	<i>Rubus idaeus</i>	Wild Red Raspberry
RUBU PAR	<i>Rubus parviflorus</i>	Thimbleberry
RUBU STR	<i>Rubus strigosus</i>	Wild Red Raspberry
SALI ARC	<i>Salix artica</i>	Arctic Willow
SALI ATH	<i>Salix athabascensis</i>	
SALI BAA	<i>Salix barratiana</i>	Barratt's Willow
SALI BAR	<i>Salix barklayii</i>	Barclay's Willow
SALI BEB	<i>Salix bebbiana</i>	Beaked Willow
SALI CAN	<i>Salix candida</i>	Hoary Willow
SALI DRU	<i>Salix drummondiana</i>	
SALI FAR	<i>Salix fariae</i>	
SALI GLA	<i>Salix glauca</i>	Smooth Willow
SALI LUC	<i>Salix lucida</i>	
SALI MEL	<i>Salix melanopsis</i>	
SALI MYR	<i>Salix myrtillifolia</i>	Myrtle-leaved Willow
SALI PED	<i>Salix pedicellaris</i>	Bog Willow
SALI PLA	<i>Salix planifolia</i>	Glaucous Bog Willow
SALI PYR	<i>Salix pyrifolia</i>	Balsam Willow
SALI RET	<i>Salix reticulata</i>	
SALI SCO	<i>Salix scouleriana</i>	
SALI STO	<i>Salix stolonifera</i>	
SAMB RAC	<i>Sambucus racemosa</i>	Elderberry
SHEP CAN	<i>Shepherdia canadensis</i>	Canadian Buffaloberry
SORB SCO	<i>Sorbus scopulina</i>	Mountain Ash
SPIR BET	<i>Spiraea betulifolia</i>	White Meadowsweet
SYMP ALB	<i>Symphoricarpos albus</i>	Snowberry
VACC MEM	<i>Vaccinium membranaceum</i>	Tall Bilberry
VACC MYR	<i>Vaccinium myrtoloides</i>	Blueberry
VIBU EDU	<i>Viburnum edule</i>	Lowbush Cranberry

#### C-Layer

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ACHI MIL	<i>Achillea millefolium</i>	Common Yarrow
ACON DEL	<i>Aconitum delphinifolium</i>	Monk's Hood
ACTA RUB	<i>Actaea rubra</i>	Red Baneberry
ANDR POL	<i>Andromeda polifolia</i>	Bog Rosemary
ANEM LIT	<i>Anemone lithophila</i>	
ANEM PAR	<i>Anemone parviflora</i>	Small Wood Anemone
ANTE MED	<i>Antennaria media</i>	
ANTE MIC	<i>Antennaria microphylla</i>	
ANTE NEG	<i>Antennaria neglecta</i>	
ANTE NIT	<i>Antennaria nitida</i>	Pussytoes
ANTE RAC	<i>Antennaria racemosa</i>	Racemose Everlasting
ANTE ROS	<i>Antennaria roseus</i>	
ARAL NUD	<i>Aralia nudicaulis</i>	Wild Sarsaparilla
ARCT RUB	<i>Arctostaphylos rubra</i>	Alpine Bearberry
ARCT UVA	<i>Arctostaphylos uva-ursi</i>	Bearberry

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ARNI CHA	<i>Arnica chamissonis</i>	Leafy Arnica
ARNI COR	<i>Arnica cordata</i>	Heart-leaved Arnica
ARNI LAT	<i>Arnica latifolia</i>	Mountain Arnica
ARNI RYD	<i>Arnica rydbergii</i>	
ARTE NOR	<i>Artemisia norvegica</i>	Mountain Sage
ASTE CIL	<i>Aster ciliolatus</i>	Lindley's Aster
ASTE CON	<i>Aster conspicuous</i>	Showy Aster
ASTE HES	<i>Aster hesperius</i>	Western Willow Aster
ASTE LAE	<i>Aster laevis</i>	Smooth Aster
ASTE PUN	<i>Aster puniceus</i>	Purple-Stemmed Aster
ASTE SIB	<i>Aster sibiricus</i>	Arctic Aster
ASTE SUB	<i>Aster subspicatus</i>	
ASTR AME	<i>Astragalus americanus</i>	
ASTR STR	<i>Astragalus striatus</i>	Ascending Purple Milk Vetch
ATHY FIL	<i>Athyrium felix-femina</i>	Lady Fern
BOTR VIR	<i>Botrychium virginianum</i>	
CAMP LAS	<i>Campanula lasiocarpa</i>	Alpine Harebell
CAMP ROT	<i>Campanula rotundifolia</i>	
CASS TET	<i>Cassiope tetragona</i> spp.	White Mountain Heather
	<i>saximontana</i>	
CAST MIN	<i>Castilleja miniata</i>	Common Red Paintbrush
CAST OCC	<i>Castilleja occidentalis</i>	
CERA ARV	<i>Cerastium areense</i>	Field Chickweed
CERA BEE	<i>Cerastium beeringianum</i>	
CERA SPP	<i>Cerastium</i> species	Chickweed
CLEM OCC	<i>Clematis occidentalis</i>	Purple Clematis
CORA TRI	<i>Corallorhiza trifida</i>	Pale Coral-root
CORN CAN	<i>Cornus canadensis</i>	Bunchberry
CYPR PAS	<i>Cypripedium passerinum</i>	
DELP GLA	<i>Delphinium glaucum</i>	Tall Larkspur
DISP TRA	<i>Disporum trachyearpum</i>	Fairy Bells
DRAB AUR	<i>Draba aurea</i>	
DRYA HOO	<i>Dryas hookeriana</i>	White Dryad
DRYO CAR	<i>Dryopteris carthusiana</i>	Narrow Spinulose Shield Fern
EMPE NIG	<i>Empetrum nigrum</i>	Crowberry
EPIL ANG	<i>Epilobium angustifolium</i>	Common Fireweed
EPIL CIL	<i>Epilobium ciliatum</i>	
EPIL LAT	<i>Epilobium latifolium</i>	Broad-leaved Fireweed
EPIL PAL	<i>Epilobium palustre</i>	Marsh Willow Herb
EQUI ARV	<i>Equisetum arvense</i>	Common Field Horsetail
EQUI HYE	<i>Equisetum hyemale</i>	Scouring Rush
EQUI PRA	<i>Equisetum pratense</i>	Meadow Horsetail
EQUI SCI	<i>Equisetum scirpoides</i>	Dwarf Scouring Rush
EQUI SYL	<i>Equisetum sylvaticum</i>	Woodland Horsetail
ERIG HUM	<i>Erigeron humilis</i>	
ERIG PER	<i>Erigeron peregrinus</i> spp.	Wandering Daisy
	<i>callianthemus</i>	
FRAG VIR	<i>Fragaria virginiana</i>	Wild Strawberry
GALI BOR	<i>Galium boreale</i>	Northern Bedstraw
GALI LAB	<i>Galium labradoricum</i>	
GALI TRI	<i>Galium triflorum</i>	Sweet-Scented Bedstraw
GAUL HIS	<i>Gaultheria hispidula</i>	Creeping Snowberry

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
GENT AMA	<b>Gentionella amarella spp. acuta</b>	Felwort, Northern Gentian
GENT CAL	<b>Gentiana calycosa</b>	Mountain Gentian
GENT GLA	<b>Gentiana glauca</b>	Alpine Gentian
GENT PRO	<b>Gentiana prostrata v. americana</b>	Gentian
GENT PRP	<b>Gentianella propinqua</b>	Felwort
GEOC LIV	<b>Geocaulon lividum</b>	Bastard Toadflax
GERA RIC	<b>Geranium richardsonii</b>	Wild White Geranium
GERA VIC	<b>Geranium viscosissimum</b>	Sticky Purple Geranium
GEUM ALL	<b>Geum allepicum v. stdrictum</b>	Yellow Avens
GEUM RIV	<b>Geum rivale</b>	Purple or Water Avens
GEUM TRI	<b>Geum triflorum</b>	Old Man's Whiskers, 3- Flowered Avens
GLYC STR	<b>Glyceria striata</b>	Fowl Manna Grass
GOOD OBL	<b>Goodyera oblongifolia</b>	Rattlesnake Plantain
GYMN DRY	<b>Gymnocarpium dryopteris</b>	Oak Fern
HABE HYP	<b>Habenaria hyperborea</b>	Northern Green Orchid
HABE OBT	<b>Habenaria obtusata</b>	Blunt-Leaved Orchid
HABE ORB	<b>Habenaria orbiculata</b>	Round-Leaved Orchid
HABE VIR	<b>Habenaria viridis v. bracteata</b>	Bracted Orchid
HALE DEF	<b>Habenia deflexa</b>	Spurred Gentian
HEDY ALP	<b>Hedysarum alpinum v. americanum</b>	American Hedysarum
HEDY SUL	<b>Hedysarum sulphurescens</b>	Yellow Hedysarum
HERA LAN	<b>Heracleum lanatum</b>	Cow Parsnip
HIER TRI	<b>Hieracium triste</b>	
HIER UMB	<b>Hieracium umbellatum</b>	
KALM POL	<b>Kalmia polifolia v. microphylla</b>	Swamp Laurel, Mountain Laurel
LATH OCH	<b>Lathyrus ochroleucus</b>	Cream-Colored Vetchling
LATH VEN	<b>Lathyrus venosus</b>	
LILI PHI	<b>Lilium philadelphicum</b>	Western Wood Lily
LINN BOR	<b>Linnaea borealis</b>	Twinflower
LIST BOR	<b>Listera borealis</b>	Northern Twayblade
LIST COR	<b>Listera cordata</b>	Heart-leaved Twayblade
LUPI SER	<b>Lupinus sericicus</b>	Perennial Lupine
LYCO ANN	<b>Lycopodium annotinum</b>	Stiff Club Moss
LYCO CLA	<b>Lycopodium clavatum</b>	Running Club Moss
LYCO COM	<b>Lycopodium complanatum</b>	Ground Cedar
MAIA CAN	<b>Maianthemum canadense</b>	Wild Lily-of-the-Valley
MELA LIN	<b>Melampyrum lineare</b>	
MENY TRI	<b>Menyanthes trifoliata</b>	Buckbean
MERT PAN	<b>Mertensia paniculata</b>	Tall Mertensia, Lungwort
MINU BIF	<b>Minuartia biflora</b>	
MINU OBT	<b>Minuartia obtusiloba</b>	
MITE NUD	<b>Mitella nuda</b>	Bishop's Cap, Mitrewort
MOEH LAT	<b>Moehringia lateriflora</b>	
MONE UNI	<b>Moneses uniflora</b>	One-Flowered Wintergreen
MYOS ALP	<b>Myosotis alpestris</b>	Alpine Forget-Me-Not
ORTH SEC	<b>Orthilia secunda</b>	One-Sided Wintergreen

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
OSMO CHI	<b>Osmorhiza chilensis</b>	
OSMO DEP	<b>Osmorhiza depauperata</b>	Sweet Cicely
OXYC MIC	<b>Oxycoccus microcarpus</b>	Small Bog Cranberry
OXYR DIG	<b>Oxyria digyna</b>	Mountain Sorrell
OXYT DEF	<b>Oxytropis deflexa</b>	Reflexed Locoweed
OXYT POD	<b>Oxytropis podiocarpa</b>	Bladder Locoweed
OXYT SPL	<b>Oxytropis splendens</b>	Showy Locoweed
PARN FIM	<b>Parnassia fimbriata</b>	Fringed Grass-of-Parnassus
PARN PAL	<b>Parnassia palustris v. neogaea</b>	Northern Grass-of-Parnassus
PEDI BRA	<b>Pedicularis bracteosa</b>	Bracted Lousewort
PEDI CAP	<b>Pedicularis capitata</b>	Large-Flowered Lousewort
PEDI LAB	<b>Pedicularis labradorica</b>	Labrador Lousewort
PEDI PAR	<b>Pedicularis parviflora</b>	Swamp Lousewort
PEDI SPP	<b>Pedicularis species</b>	Lousewort species
PENS PRO	<b>Penstemon procerus</b>	Slender Blue Beardtongue
PETA PAL	<b>Petasites palmatus</b>	Palmate-Leaved Coltsfoot
PETA SAG	<b>Petasites sagittatus</b>	Arrow-Leaved Coltsfoot
PHYL EMP	<b>Phyllodoce empetriformis</b>	Red/Purple Heather
POLE PUL	<b>Polemonium pulcherrimum</b>	Jacob's Ladder
POLY VIV	<b>Polygonum viviparum</b>	Bistort
POTE DIV	<b>Potentilla diversifolia</b>	Smooth-Leaved Cinquefoil
POTE GRA	<b>Potentilla gracilis</b>	Graceful Cinquefoil
POTE HOO	<b>Potentilla hookeriana</b>	
POTE PAL	<b>Potentilla palustris</b>	Marsh Cinquefoil
PYRO ASA	<b>Pyrola asarifolia</b>	Common Pink Wintergreen
PYRO SEC	<b>Pyrola secunda</b>	One-Sided Wintergreen
PYRO CHL	<b>Pyrola chlorantha</b>	Greenish-Flowered Wintergreen
PYRO MIN	<b>Pyrola minor</b>	Lesser Wintergreen
RANU OCC	<b>Ranunculus occidentalis</b>	Western Buttercup
RUBU ACR	<b>Rubus arcticus</b>	Dwarf Raspberry
RUBU CHA	<b>Rubus chamaemorus</b>	Cloudberry
RUBU FAA	<b>Rubus paracaulis</b>	
RUBU PED	<b>Rubus pedatus</b>	Dwarf Bramble
RUBU PUB	<b>Rubus pubescens</b>	Dewberry, Running Raspberry
RUME ALP	<b>Rumex alpostris</b>	Green Sorrell
SAXI TRI	<b>Saxifraga tridentata</b>	Purple Saxifrage
SELA SEL	<b>Selaginella selaginoides</b>	Little Club Moss
SENE IND	<b>Senecio indecorus</b>	Rayless Ragwort
SENE TRI	<b>Senecio triangularis</b>	Brook Ragwort
SIBB PRO	<b>Sibbaldia procumbens</b>	Sibbaldia
SILE ACA	<b>Silene acaulis v. exscapa</b>	Moss Campian
SMIL RAC	<b>Smilacina racemosa</b>	False Solomon's Seal
SMIL STE	<b>Smilacina stellata</b>	Star-Flowered Solomon's Seal
SMIL TRI	<b>Smilacina trifolia</b>	Three-Leaved Solomon's Seal
SOLI CAN	<b>Solidago canadensis</b>	Canada Goldenrod
SOLI DEC	<b>Solidago decumbens</b>	Mountain Goldenrod
SOLI LEP	<b>Solidago lepida</b>	Mountain Goldenrod

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
SOLI MUL	<b>Solidago multiradiata</b>	Alpine Goldenrod
SOLI NEM	<b>Solidago nemoralis v. decemflora</b>	Showy Goldenrod
SOLI SPA	<b>Solidago spathulata</b>	
SOLI SPP	<b>Solidago species</b>	Goldenrod
SPIR ROM	<b>Spiranthes romanzoffiana</b>	Lady's Tresses
STEL CAL	<b>Stellaria calycantha</b>	Northern Stitchwort
STEL LOG	<b>Stellaria longipes</b>	Long-Stalked Chickweed
STEL LON	<b>Stellaria longifolia</b>	Long-Leaved Chickweed
STEL MED	<b>Stellaria media</b>	Common Chickweed
STEN OCC	<b>Stenanthium occidentale</b>	Bronze Bells
STRE AMP	<b>Streptopus amplexifolius</b>	Twisted Stalk
STRE ROS	<b>Streptopus roseus</b>	
TARA OFF	<b>Taraxacum officinalis</b>	Common Dandelion
THAL OCC	<b>Thalictrum occidentale</b>	Western Meadow Rue
THAL VEN	<b>Thalictrum venulosum</b>	Veiny Meadow Rue
TIAR TRI	<b>Tiarella trifoliata</b>	False Mitrewort
TIAR UNI	<b>Tiarella unifoliata</b>	Sugarscoop, False Mitrewort
TROL ALB	<b>Trollius albiflorus</b>	Globe Flower
VACC CAE	<b>Vaccinium caespitosum</b>	Dwarf Bilberry
VACC MYT	<b>Vaccinium myrtillus</b>	Low Bilberry
VACC VIT	<b>Vaccinium vitis-idaea v. minus</b>	Bog Cranberry
VALE DIO	<b>Valeriana dioica</b>	Valerian
VALE SIT	<b>Valeriana sitchensis</b>	Mountain Heliotrope
VERA ESC	<b>Veratrum eschscholtzii</b>	False Hellebore
VERO ALP	<b>Veronica alpina v. unalaschensis</b>	Alpine Speedwell
VERO SER	<b>Veronica serpyllifolia</b>	
VICI AME	<b>Vicia americana</b>	Wild Vetch
VIOL ADU	<b>Viola adunca</b>	Early Blue Violet
VIOL CAN	<b>Viola canadensis</b>	Western Canada Violet
VIOL NEP	<b>Viola nephrophylla</b>	Bog Violet
VIOL ORB	<b>Viola orbiculata</b>	Evergreen Violet
VIOL PAL	<b>Viola palustris</b>	Marsh Violet
VIOL REN	<b>Viola renifolia</b>	Kidney-Leaved Violet
VIOL RUG	<b>Viola rugulosa</b>	Western Canada Violet
ZYGA ELE	<b>Zygadenus elegans</b>	White Camas

#### D-Layer

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
ALEC SAR	<b>Alectoria sarmentosa</b>	
AMBL SER	<b>Amblystegium serpens</b>	
AULA PAL	<b>Aulacomnium palustre</b>	
BARB HAT	<b>Barbilophoza hatcheri</b>	
BARB LYC	<b>Barbilophoza lycopodioides</b>	
BAZZ TRI	<b>Bazzania trilobata</b>	
BRAC ALB	<b>Brachythecium albicans</b>	

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
BRAC CAM	<i>Brachytecium campestre</i>	
BRAC GRO	<i>Brachythecium groenlandicum</i>	
BRAC HYL	<i>Brachythecium hylotapetum</i>	
BRAC LEI	<i>Brachythecium leibergii</i>	
BRAC MIL	<i>Brachytecium mildianum</i>	
BRAC SAL	<i>Brachytecium salebrosum</i>	
BRAC SPP	<i>Brachytecium species</i>	
BRAC STA	<i>Brachytecium starkei</i>	
BRYO CAP	<i>Bryoria capillaris</i>	
BRYO FRE	<i>Bryoria fremontii</i>	
BRYO FUR	<i>Bryoria furcellata</i>	
BRYO FUS	<i>Bryoria fuscenscens</i>	
BRYU PSE	<i>Bryum pseudotriquetrum</i>	
CALL GIG	<i>Calliergon giganteum</i>	
CAMP HIS	<i>Campylium hispidulum</i>	
CAMP STE	<i>Campylium stellatum</i>	
CATA NIG	<i>Catoscopium nigrum</i>	
CERA PUR	<i>Ceratodon purpureus</i>	
CETR CUC	<i>Cetraria cucullata</i>	
CETR HAL	<i>Cetraria halai</i>	
CETR ISL	<i>Cetraria islandica</i>	
CETR MER	<i>Cetraria merrillii</i>	
CETR NIV	<i>Cetraria nivalis</i>	
CLAD MIT	<i>Cladina mitis</i>	
CLAD RAN	<i>Cladina rangiferina</i>	
CLAD STE	<i>Cladina stellaris</i>	
CLAD CAP	<i>Cladonia capitata</i>	
CLAD CEN	<i>Cladonia cenotea</i>	
CLAD CHL	<i>Cladonia chlorophaea</i>	
CLAD COC	<i>Cladonia coccifera</i>	
CLAD CON	<i>Cladonia conista</i>	
CLAD COR	<i>Cladonia cornuta</i>	
CLAD CRI	<i>Cladonia crispata</i>	
CLAD DEF	<i>Cladonia deformis</i>	
CLAD ECM	<i>Cladonia ecmocyna</i>	
CLAD FIM	<i>Cladonia fimbriata</i>	
CLAD GON	<i>Cladonia gonecha</i>	
CLAD GRA	<i>Cladonia gracilis</i>	
CLAD PHY	<i>Cladonia phyllophora</i>	
CLAD PLE	<i>Cladonia pleurota</i>	
CLAD PYX	<i>Cladonia pyxidata</i>	
CLAD SPP	<i>Cladonia species</i>	
CLAD SQU	<i>Cladonia squamesa</i>	
CLAD UNC	<i>Cladonia uncialis</i>	
CLIM DEN	<i>Climacium dendroides</i>	
DACT ARC	<i>Dactrylina arctica</i>	
DICR ACU	<i>Dicranum acutifolium</i>	
DICR BRE	<i>Dicranum brevifolium</i>	
DICR FLA	<i>Dicranum flagellara</i>	
DICR FRA	<i>Dicranum fragilifolium</i>	
DICR FUS	<i>Dicranum fuscenscens</i>	
DICR POL	<i>Dicranum polysetum</i>	

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
DICR SCO	<i>Dicranum scoparium</i>	
DICR SPP	<i>Dicranum species</i>	
DICR UND	<i>Dicranum undulatum</i>	
DREP REV	<i>Drepanocladus revolvens</i>	
DREP UNC	<i>Drepanocladus uncinatus</i>	
EURH PUL	<i>Eurhynchium pulchellum</i> v. <i>praecox</i>	
EVER MES	<i>Evernia mesomorpha</i>	
HELO BLA	<i>Helodium blandowii</i>	
HYLO SPL	<i>Hylocomnium splendens</i>	
HYPO AUS	<i>Hypogymnia austerodes</i>	
HYPO BIT	<i>Hypogymnia bitteri</i>	
HYPO ENT	<i>Hypogymnia enteromorpha</i>	
HYPO PHY	<i>Hypogymnia physodes</i>	
HYPO TUB	<i>Hypogymnia tubulosa</i>	
HYPN PRA	<i>Hypnum pratense</i>	
HYPN SPP	<i>Hypnum species</i>	
ICMA ERA	<i>Icmadophila eracetorum</i>	
JAME AUT	<i>Jamesoniella autumnalis</i>	
LECA RUB	<i>Lecanora rubina</i>	
LEPI REP	<i>Lepidozia reptans</i>	
LEPT PYR	<i>Leptobryum syriforme</i>	
LETH VUL	<i>Letharia vulpina</i>	
LOBA LIN	<i>Lobaria linita</i>	
LOBA PUL	<i>Lobaria pulmonaria</i>	
LOPH BIN	<i>Lophozia binsteadii</i>	
LOPH POR	<i>Lophozia porphyroleuca</i>	
LOPH VEN	<i>Lophozia ventricosa</i>	
MNIU AFF	<i>Mnium affine</i>	
MNIU ARI	<i>Mnium arizonicum</i>	
MNIU SPI	<i>Mnium spinulosum</i>	
NEPH BEL	<i>Nephroma bellum</i>	
NEPH EXP	<i>Nephroma expallidum</i>	
PALU SQU	<i>Paludella squarrosa</i>	
PARM CHL	<i>Parmelia chlorachoa</i>	
PARM SUL	<i>Parmelia sulcata</i>	
PARM ALE	<i>Parmeliopsis aleurites</i>	
PARM AMB	<i>Parmeliopsis ambigua</i>	
PARM HYP	<i>Parmeliopsis hyperopta</i>	
PELT APH	<i>Peltigera aphthosa</i>	
PELT CAN	<i>Peltigera canina</i>	
PELT MAL	<i>Peltigera malacea</i>	
PELT POL	<i>Peltigera polydactyla</i>	
PHYS ADS	<i>Physcia adscendens</i>	
PLAG DRU	<i>Plagiomnium drummondii</i>	
PLAG ELL	<i>Plagiomnium ellipticum</i>	
PLAG MED	<i>Plagiomnium medium</i>	
PLEU SCH	<i>Pleurozium schreberi</i>	
POHL NUT	<i>Pohlia nutans</i>	
POLY JUN	<i>Polytrichum juniperinum</i>	
POLY PIL	<i>Polytrichum piliferum</i>	
POLY STR	<i>Polytrichum strictum</i>	

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
PTIL CIL	<i>Ptilidium ciliare</i>	
PTIL PUL	<i>Ptilidium pulcherrimum</i>	
PTIL CRI	<i>Ptilium crista-castrensis</i>	
PYLA POL	<i>Pylaisiella polifera</i>	
RAMA FAS	<i>Ramilina fastigiata</i>	
RAMA THR	<i>Ramilina thrausta</i>	
RHIZ GRA	<i>Rhizomnium gracile</i>	
RHIZ PSE	<i>Rhizomnium pseudopunctatum</i>	
RHYT TRI	<i>Rhytidiadelphus triquetrus</i>	
SPHA ANG	<i>Sphagnum angustifolium</i>	
SPHA FUS	<i>Sphagnum fuscum</i>	
SPHA GIR	<i>Sphagnum girgensohnii</i>	
SPHA MAG	<i>Sphagnum magellanicum</i>	
SPHA NEM	<i>Sphagnum nemoreum</i>	
SPHA RUS	<i>Sphagnum russowii</i>	
SPHA TER	<i>Sphagnum teres</i>	
SPHA WAR	<i>Sphagnum warnstorffii</i>	
SPLA SPH	<i>Splachnum sphaericum</i>	
STER TOM	<i>Stereocaulon tomentosum</i>	
TETR MNI	<i>Tetrapladon mnioides</i>	
TETR PEL	<i>Tetraphis pellucida</i>	
THAM SUB	<i>Thamnia subuliformis</i>	
THUI ABI	<i>Thuidium abietinum</i>	
THUI REC	<i>Thuidium recognitum</i>	
TIMM AUS	<i>Timmia austriaca</i>	
TOME NIT	<i>Tomenthypnum nitens</i>	
TONI COE	<i>Toninia coeruleonigrans</i>	
TORT NOR	<i>Tortula norvegica</i>	
TORT RUR	<i>Tortula ruralis</i>	
TRIT EXS	<i>Tritomaria exsecta</i>	
USNE ALP	<i>Usnea alpina</i>	
USNE CAU	<i>Usnea cavernosa</i>	
USNE GLA	<i>Usnea glabrata</i>	
USNE SOR	<i>Usnea soledia</i>	
USNE SUB	<i>Usnea subfloridana</i>	

#### E-Layer

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
AGRO SCA	<i>Agrostis scabra</i>	Hair Grass, Tickle Grass
AGRO SUB	<i>Agropyron subsecundum</i>	Bearded Wheat Grass
AGRO TRA	<i>Agropyron trachycaulum</i>	Slender Wheat Grass
BROM INE	<i>Bromus inermis</i>	Awnless Brome
CALA CAN	<i>Calamagrostis canadensis</i>	Bluejoint, Marsh Reed Grass
CALA INE	<i>Calamagrostis inexpansa</i>	Northern Reed Grass
CALA STR	<i>Calamagrostis stricta</i>	Narrow Reed Grass
CARE ALB	<i>Carex albo-nigra</i>	
CARE AQU	<i>Carex aquatilis</i>	Water Sedge
CARE BRU	<i>Carex brunnescens</i>	Brownish Sedge

<u>Spp. Code</u>	<u>Latin Name</u>	<u>Common Name</u>
CARE CAP	<i>Carex capillaris</i>	
CARE CHO	<i>Carex chordorrhiza</i>	Prostrate Sedge
CARE COC	<i>Carex concinnoides</i>	
CARE CON	<i>Carex concinna</i>	Beautiful Sedge
CARE DIA	<i>Carex diandra</i>	Two-Stemmed Sedge
CARE DIS	<i>Carex disperma</i>	Two-Seeded Sedge
CARE GYN	<i>Carex gynocrates</i>	Northern Bog Sedge
CARE MAC	<i>Carex macloviana</i>	Thick-Spiked Sedge
CARE MIC	<i>Carex microglochin</i>	
CARE NIG	<i>Carex nigricans</i>	Blackening Sedge
CARE PAP	<i>Carex paupercaula</i>	
CARE PAU	<i>Carex pauciflora</i>	Few-Flowered Sedge
CARE PEN	<i>Carex pensylvania</i>	
CARE PRA	<i>Carex praticola</i>	
CARE ROS	<i>Carex rossi</i>	Ross' Sedge
CARE ROT	<i>Carex rostrata</i>	Beaked Sedge
CARE SCI	<i>Carex scirpoides</i>	
CARE SIC	<i>Carex siccada</i>	
CARE TEN	<i>Carex tenuiflora</i>	Thin Flowered Sedge
CARE TOL	<i>Carex tolmiei</i>	
CARE VAG	<i>Carex vaginata</i>	Sheathed Sedge
DANT CAL	<i>Danthonia californica</i>	
DESC CES	<i>Deschampsia cespitosa</i>	Tufted Hair Grass
ELYM INN	<i>Elymus innovatus</i>	Hairy Wild Rye
ERIO CHA	<i>Eriophorum chamissonis</i>	Russett Cotton Grass
ERIO VAG	<i>Eriophorum vaginatum</i>	
ERIO VIR	<i>Eriophorum viridi-carinatum</i>	Thin-Leaved Cotton Grass
FEST SAX	<i>Festuca saximontana</i>	
HIER ODO	<i>Hierochloa odorata</i>	Sweet Grass
JUNC BAL	<i>Juncus balticus</i>	Wire Rush
JUNC DRU	<i>Juncus drummondii</i>	Drummond's Rush
KOBR MYO	<i>Kobresia myosuroides</i>	Bog Sedge
LUZU PAR	<i>Luzula parviflora</i>	Small-Flowered Wood Rush
LUZU PIP	<i>Luxula piperi</i>	
ORYZ ASP	<i>Oryzopsis asperifolia</i>	Northern Rye Grass
ORYZ EXI	<i>Oryzopsis exigera</i>	
ORYZ SPE	<i>Oryzopsis species</i>	
PHLE COM	<i>Phleum commutatum</i>	Mountain Timothy
POA ALP	<i>Poa alpina</i>	Alpine Bluegrass
POA COM	<i>Poa compressa</i>	Canada Bluegrass
POA PAL	<i>Poa palustris</i>	Fowl Bluegrass
POA PRA	<i>Poa pratensis</i>	Kentucky Bluegrass
SCHI PUR	<i>Schizachne purpureascens</i>	False Melic
SCIR CAE	<i>Scripus caespitosus</i> v. <i>callosus</i>	Tufted Bulrush
TRIS SPI	<i>Trisetum spicatum</i>	Spike Trisetum



APPENDIX D  
PLANT ASSOCIATION TABLES



## ----- V E G E T A T I O N T A B L E S -----

## RESOURCE INVENTORY

EDMONTON, ALBERTA

02:01:08 NOV 22, 1984

NO CODING ERRORS IN DATA SET

TOTAL NUMBER OF PLOTS IS 402

TOTAL NUMBER OF SPECIES IN EACH LAYER IS 16 22 49 28 81 222 91 109 57

[illegible]

LEVEL	ZONE	ASSC TYPE	POPULUS TREMULOIDES/VIBURNUM EDULE/RUBUS PUBESCENS																RESOURCE INVENTORY																								
			PRESENCE (%P)		MEAN COVER (MC)		PERCENT COVER (%C)		SOCIALITY (S)		VIGOR (V)		TABLE		PAGE		1		NOV 22, 1984		EDMONTON, ALBERTA																						
ECOSYM UNIT	MW	1																																									
PLOT NUMBER	AVERAGE VALUE	3G P093	3G P091	3G P133	3G P213	3G P214	3G P108	3G P211	3G P205	3G P08A	3G P198	3G P212	3G P160	3G P150	3G P098	3G P115																											
NUMBER OF SPECIES PER PLOT																																											
SPECIES																																											
27 CORY COR	3.7 0.7																																										
28 RUBU PED	3.7 0.2																																										
29 SALI GLA	3.7 0.2																																										
30 VACC CAE	3.7 0.1																																										
31 BETU PAP	3.7 0.0																																										
32 PICE MAR	3.7 0.0																																										
33 RIBE SPP	3.7 0.0																																										
34 RIBE TRI	3.7 0.0																																										
35 SALI DIS	3.7 0.0																																										
36 SHEP ARG	3.7 0.0																																										
C LAYER																																											
37 LATH OCH	92.6 2.0	5 2	5 2	3 2	1 2	1 2	1 2	1 2	1 2	5 2	1 2	1 2	1 2	1 2	1 2	1 2																											
38 RUBU PUB	88.9 2.0	1 2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	3 2	3 2	2 2	1 2	1 2	1 2	1 2																											
39 CORN CAN	85.2 7.3	2 2	15 2	3 2	3 2	3 2	10 2	4 2	5 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2																											
40 FRAG VIR	85.2 1.4		1 2	3 2	1 2	1 2	1 2	1 2	1 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2																											
41 GALI BOR	81.5 0.9	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
42 EPIL ANG	77.8 4.1		4 2	10 2	1 2	1 2	3 2	1 2	4 2	8 2	2 2	4 2	1 2	1 2	1 2	1 2																											
43 ASTE CON	77.8 3.5	1 2	5 2	5 2	1 2	1 2	2 2	2 2	8 2	5 2	6 2	4 2	1 2	8 2	1 2	1 2																											
44 MAIA CAN	77.8 1.0	1 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
45 PETA PAL	74.1 1.3	1 2	1 2	1 2	7 2	1 2	4 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
46 LINN BOR	70.4 1.6		3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
47 PYRO ASA	70.4 1.3	9 2	1 2	1 2	1 2	6 2	1 2	1 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
48 VICI AME	55.6 0.6	1 2	1 2	1 2	1 2	1 2	1 2	1 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
49 ARAL NUD	51.9 6.3	20 2	4 2				4 2	1 2	7 2	12 2	8 2	1 2	1 2	1 2	1 2	1 2																											
50 MERT PAN	51.9 1.4	3 2	3 2				1 2	1 2	8 2	2 2	2 2	1 2	1 2	4 2	1 2	1 2																											
51 VIOL REN	40.7 0.5	1 2	3 2				1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
52 EQUI SYL	40.7 0.4						1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
53 ORTH SEC	40.7 0.4						1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
54 ARNI COR	37.0 0.4	1 2	1 2	1 2			2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2																											
55 MITE NUD	29.6 0.3		2 2	1 2	1 2						1 2																																
VACC CAE	25.9 0.6			2 2	1 2	1 2	4 2	1 2	1 2																																		
56 ASTE CIL	25.9 0.4		1 2	1 2	1 2	1 2	1 2	1 2	1 2																																		
57 EQUI PRA	22.2 0.3	1 2																																									
58 ARCT UVA	14.8 0.3		5 2				1 2	1 2	1 2																																		
59 ACHI MIL	14.8 0.1																																										
60 CAST MIN	14.8 0.1			1 2	1 2		1 2	1 2																																			
61 HIER UMB	14.8 0.1						1 2	1 2																																			
62 VACC VIT	14.8 0.1		1 2																																								
63 VALE DIO	14.8 0.1																																										
64 VIOL CAN	11.1 0.2																																										
65 EQUI ARV	11.1 0.1																																										
66 THAL VEN	7.4 0.2																																										
67 ASTE SPP	7.4 0.1																																										
68 DISP TRA	7.4 0.1																																										
69 EQUI SCI	7.4 0.1																																										
70 PYRO MIN	7.4 0.1																																										
71 SMIL RAC	7.4 0.1	3 2	3 2							1 2																																	



PLOT NUMBER	NUMBER OF SPECIES PER PLOT											
	SPECIES											
	3G PO07	3G PO11	3G PO15	3G PO21	3G P129	3G P203	3G P206	3G P166	3G P199	3G P208	3G P210	3G PO09
A1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	40	2	40	2	25	2	60	2	10	2	60	2
	15	2	2	2	5	2	1	2	3	2	1	2
	5	2										
A2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	15	2	2	2	5	2	1	2	3	2	1	2
	5	2										
B1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	1	2	3	2	5	2	1	2	2	2	2	2
B2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	30	2	12	2	28	2	15	2	15	2	10	2
	10	2	10	2	15	2	10	2	25	2	4	2
	5	2	8	2	2	2	3	2	3	2	2	2
C1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	2	2	2	2	2	2	2	2	2	2	2	2
	3	2	1	2	4	2	1	2	1	2	1	2
	10	2	5	2	3	2	13	2	10	2	4	2
C2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	10	2	10	2	15	2	10	2	20	2	35	2
	5	2	8	2	2	2	2	2	35	2	1	2
	17	2	2	2	2	2	2	2	13	2	1	2
D1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	3	2	1	2	4	2	1	2	1	2	1	2
	10	2	5	2	3	2	13	2	10	2	4	2
	5	2	8	2	2	2	2	2	35	2	1	2
D2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	10	2	10	2	15	2	10	2	20	2	35	2
	5	2	8	2	2	2	2	2	35	2	1	2
	17	2	2	2	2	2	2	2	13	2	1	2
E1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	3	2	1	2	4	2	1	2	1	2	1	2
	10	2	5	2	3	2	13	2	10	2	4	2
	5	2	8	2	2	2	2	2	35	2	1	2
E2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	10	2	10	2	15	2	10	2	20	2	35	2
	5	2	8	2	2	2	2	2	35	2	1	2
	17	2	2	2	2	2	2	2	13	2	1	2
F1 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	3	2	1	2	4	2	1	2	1	2	1	2
	10	2	5	2	3	2	13	2	10	2	4	2
	5	2	8	2	2	2	2	2	35	2	1	2
F2 LAYER	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
	10	2	10	2	15	2	10	2	20	2	35	2
	5	2	8	2	2	2	2					









LEVEL			ZONE		ASSC TYPE		POPULUS TREMULOIDES/ROSA ACICULARIS/LATHYRUS OCHROLEUCUS														RESOURCE INVENTORY			
ECOSYM UNIT			NW		2		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)														EDMONTON, ALBERTA			
							02:01:08 NOV 22, 1984														TABLE 2 PAGE 1			
PLOT NUMBER							AVERAGE VALUE		3G P175	3G P102	3G P056	3G P057	3G P167	3G P079										
NUMBER OF SPECIES PER PLOT							27.7		23	30	27	28	27	31										
SPECIES							%P	MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV										
A1 LAYER																								
1 POPU TRE							100.0	37.5	15	2	30	2	60	2	40	2	20	2						
2 PICE GLA							50.0	2.8			10	2			2	2	5	2						
3 PINU CON							33.3	2.5	5	2	10	2												
4 BETU PAP							16.7	1.7			10	2												
A2 LAYER																								
POPU TRE							100.0	3.5	2	2	1	2	2	1	2	10	2	5	2					
PICE GLA							66.7	1.0	3	2	1	2	1	2			1	2						
PINU CON							33.3	0.3			1	2					1	2						
5 SALI SPP							16.7	0.2					1	2										
B1 LAYER																								
PICE GLA							50.0	0.7	2	2	1	2	1	2										
SALI SPP							16.7	0.8						5	2									
6 ALNU CRI							16.7	0.2					1	2			1	2						
7 POPU BAL							16.7	0.2																
B2 LAYER																								
8 SALI SCO							16.7	0.2					1	2										
9 ROSA ACI							100.0	7.2	3	2	8	2	13	2	3	2	15	2	1	2				
10 SPIR BET							83.3	7.5	6	2	10	2	13	2					3	2				
11 VIBU EDU							66.7	5.5	6	2	20	2	2	2	5	2								
12 AMEL ALN							66.7	1.2			1	2			3	2	1	2						
13 SHEP CAN							50.0	7.8					10	2	5	2		32	2					
14 VACC MYR							50.0	0.8					3	2	1	2	1	2	2	2				
POPU TRE							50.0	0.7			1	2			1	2	1	2	2	2				
C LAYER																								
15 LONI INV							33.3	2.3					8	2	6	2								
ALNU CRI							33.3	0.5	1	2			2	2					1	2				
PICE GLA							33.3	0.3			1	2												
16 ALNU TEN							16.7	0.8							5	2								
SALI SPP							16.7	0.3							2	2								
17 ABIE LAS							16.7	0.2	1	2														
18 CORN STO							16.7	0.2						1	2					1	2			
POPU BAL							16.7	0.2																
19 RUBU IDA							16.7	0.2							1	2					1	2		
20 SALI GLA							16.7	0.2												1	2			
21 SYMP ALB							16.7	0.2												1	2			
C LAYER																								
22 LATH OCH							100.0	2.5	1	2	1	2	6	2	4	2	2	2	1	2				
23 MAIA CAN							100.0	1.5	1	2	1	2	4	2	1	2	1	2	1	2				
24 EPIL ANG							83.3	7.8	20	2	8	2	4	2	7	2	8	2						
25 CORN CAN							83.3	6.8	4	2	3	2	4	2	29	2	1	2						
26 LINN BOR							83.3	3.7	2	2	2	2	7	2	10	2			1	2				
27 ASTE CON							83.3	2.3			3	2	1	2	2	2	3	2	3	2	5	2		
28 PYRO ASA							83.3	2.3	2	2	2	2	8	2	1	2	1	2						
29 ARAL NUD							83.3	2.2	3	2	5	2	2	2	1	2	2	2						
30 ORTH SEC							83.3	0.8	1	2	1	2	1	2	1	2	1	2						
31 FRAG VIR							66.7	0.7					1	2	1	2			1	2	1	2		
32 GALI BOR							66.7	0.7			1	2	1	2	1	2			1	2	1	2		
33 RUBU PUB							50.0	1.0			3	2	1	2			2	2						





LEVEL	ZONE	ASSC	TYPE
ECOSYM UNIT	MW	3	

POPULUS TREMULOIDES/LONICERA INVOLUCRATA/RUBUS PUBESCENS

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
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LEVEL		ZONE		TASSCITY		POPULUS TREMULOIDES/LONICERA INVOLUCRATA/RUBUS PUBESCENS																RESOURCE INVENTORY	
ECOSYM UNIT		MW		3		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)																O2:01:08 NOV 22, 1984	
PLOT NUMBER		AVERAGE VALUE		3G P207	3G P016	3G P099	3G P103	3G P070	3G P171	3G P189	3G P200	3G P008	3G P164	3G P036	3G P121								
NUMBER OF SPECIES PER PLOT		30.3	38	34	36	31	30	14	23	25	27	22	45	38									
SPECIES		%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV						
A1 LAYER																							
1	POPU TRE	83.3	23.8	45	2	50	2	5	2	10	2	10	2	20	2	40	2						
2	POPU BAL	83.3	23.0	10	2	20	2	45	2	35	2	45	2	20	2	1	2						
3	PICE GLA	16.7	1.3									1	2	15	2								
4	PINU CON	8.3	0.1													1	2						
A2 LAYER																							
POPU TRE		75.0	2.2	10	2	5	2	2	2	2	2	1	2										
POPU BAL		66.7	3.1	2	2			1	2	10	2	5	2	3	2	1	2						
5	ALNU TEN	25.0	0.6					5	2			1	2										
6	BETU PAP	25.0	0.6			5	2																
		25.0	0.4			3	2			1	2					1	2						
7	PICE MAR	8.3	0.1													1	2						
		8.3	0.1													1	2						
PINU CON		8.3	0.1																				
8	SALI SPP	8.3	0.1					1	2							1	2						
B1 LAYER																							
ALNU TEN		50.0	2.8																				
9	ALNU CRI	25.0	1.1			1	2	10	2	5	2	5	2										
		25.0	0.3			7	2	1	2					1	2	1	2						
POPU BAL		16.7	0.4	3	2																		
PICE GLA		16.7	0.2																				
10	AMEL ALN	8.3	0.1			1	2									1	2						
		8.3	0.1																				
PINU CON		8.3	0.1													1	2						
SALI SPP		8.3	0.1																				
B2 LAYER																							
11	VIBU EDU	100.0	10.6	20	2	4	2	13	2	10	2	7	2	3	2	10	2						
12	LONI INV	91.7	14.4	5	2	1	2	15	2	8	2	12	2	40	2	25	2						
13	ROSA ACI	91.7	9.3	8	2	6	2	1	2	15	2	1	2	7	2	28	2						
14	CORN STO	75.0	10.9	13	2			3	2	12	2	6	2	1	2	6	2						
15	RUBU IDA	58.3	2.4			2	2	1	2	1	2	4	2	10	2	10	2						
		33.3	1.7	8	2	2	2	8	2							1	2						
ALNU CRI		33.3	1.7																				
16	SHEP CAN	33.3	1.2	3	2			8	2							2	2						
		33.3	0.8	3	2	2	2									1	2						
AMEL ALN		33.3	0.8																				
17	RIBE OXY	33.3	0.8	1	2							3	2	5	2								
18	SPIR BET	33.3	0.7	5	2											1	2						
19	SYMP ALB	33.3	0.7			1	2			1	2	1	2	5	2								
		25.0	0.5	3	2			2	2	1	2												
PICE GLA		25.0	0.3																				
POPU BAL		25.0	0.3	1	2											1	2						
ALNU TEN		16.7	0.3					3	2							2	2						
20	SALI BEB	16.7	0.3			1	2									1	2						
21	LONI DIO	8.3	0.1																				
		8.3	0.1																				
POPU TRE		8.3	0.1																				
22	SALI LUC	8.3	0.1					1	2							1	2						
C LAYER																							
23	RUBU PUB	91.7	1.9	2	2	5	2	2	2	1	2	1	2	3	2	2	2						
24	ARAL NUD	75.0	6.8	5	2	1	2																
		75.0	4.7	3	2	4	2	29	2	1	2	1	2	1	2	1	2						
25	CORN CAN	75.0	4.7	3	2	4	2	29	2	1	2	1	2	1	2	1	2						
26	MERT PAN	66.7	2.9	4	2	7	2	1	2							8	2						
27	GALI BOR	66.7	0.8	2	2	1	2			1	2	2	2	1	2	1	2						

[illegible]

LEVEL	ZONE	ASSC	TYPE	POPULUS TREMULOIDES/LONICERA INVOLUCRATA/RUBUS PUBESCENS	EDMONTON, ALBERTA
ECOSYM UNIT	MW	3		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)	NOV 22, 1984
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PLOT NUMBER	AVERAGE VALUE	3G P207	3G P016	3G P099	3G P103	3G P070	3G P171	3G P189	3G P200	3G P008	3G P164	3G P036	3G P121
NUMBER OF SPECIES PER PLOT	30.3	38	34	36	31	30	14	23	25	27	22	45	38
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
73 BRAC SPP	8.3 0.1											1 2	
74 BRAC STA	8.3 0.1	1 2										1 2	
75 MNIU SPI	8.3 0.1												
L LAYER													
76 PELT CAN	25.0 0.3	1 2	1 2	1 2									
ELYM INN	8.3 0.6												
77 PELT APH	8.3 0.3	3 2											7 2

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
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POPULUS TREMULOIDES/CORYLUS CORNUTA/ARALIA NUDICAULIS

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
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TABLE 4 PAGE 1

LEVEL	ZONE	ASSC	TYPE							
ECOSYM UNIT	MW	4								
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										
PLOT NUMBER	AVERAGE VALUE	3G PO19	3G PO20	3G PO24	3G P188					
NUMBER OF SPECIES PER PLOT										
SPECIES	%P	MC	%C SV	%C SV	%C SV					
A1 LAYER										
1 POPU TRE	100.0	40.0	15	2	35	2	50	2	60	2
2 POPU BAL	50.0	2.5	5	2					5	2
3 PICE GLA	50.0	1.3	2	2	3	2				
4 BETU PAP	25.0	0.3			1	2				
A2 LAYER										
POPU TRE	100.0	6.0	1	2	3	2	10	2	10	2
PICE GLA	75.0	2.8			1	2	5	2	5	2
BETU PAP	50.0	1.5	5	2	1	2				
POPU BAL	50.0	1.5								
5 AMEL ALN	25.0	0.3	1	2					5	2
B1 LAYER										
AMEL ALN	50.0	3.0	10	2	2	2				
BETU PAP	25.0	1.3	5	2						
POPU TRE	25.0	1.3			5	2				
6 PRUN VIR	25.0	0.5					2	2		
7 CORY COR	25.0	0.3			1	2				
PICE GLA	25.0	0.3					1	2		
8 SALI DIS	25.0	0.3			1	2				
9 SALI SCO	25.0	0.3			1	2				
B2 LAYER										
CORY COR	100.0	18.8	12	2	5	2	22	2	36	2
10 ROSA ACI	100.0	14.5	10	2	13	2	20	2	15	2
AMEL ALN	100.0	13.3	10	2	37	2	5	2	1	2
11 VIBU EDU	100.0	4.5	12	2	2	2	1	2	3	2
PRUN VIR	75.0	2.0	5	2	1	2	2	2		
12 SYMP ALB	75.0	1.0	1	2	1	2	2	2		
13 CORN STO	50.0	1.8	10	2	9	2				
14 RUBU IDA	50.0	1.8					1	2	6	2
15 RIBE OXY	50.0	0.5	1	2						
16 PRUN PEN	25.0	0.8			3	2				
17 LONI DIO	25.0	0.5			2	2			2	2
18 LONI INV	25.0	0.5								
19 RUBU STR	25.0	0.5	2	2						
20 RIBE SPP	25.0	0.3			1	2				
21 SALI BEB	25.0	0.3							1	2
22 SALI SPP	25.0	0.3					1	2		
C LAYER										
23 ARAL NUD	100.0	17.0	15	2	9	2	35	2	9	2
24 CORN CAN	100.0	5.0	2	2	6	2	4	2	8	2
25 RUBU PUB	100.0	3.5	2	2	2	2	8	2	2	2
26 LINN BOR	100.0	3.3	1	2	7	2	3	2	2	2
27 MATA CAN	100.0	2.0	1	2	3	2	2	2	2	2
28 GALI BOR	100.0	1.0	1	2	1	2	1	2	1	2
29 LATH OCH	75.0	1.3			1	2	3	2	1	2
30 MERT PAN	75.0	1.3	2	2			1	2	1	2
31 PETA PAL	75.0	0.8	1	2						
32 ASTE CON	50.0	1.3			1	2			4	2





LEVEL			ZONE		JASSC TYPE		POPULUS TREMULOIDES/RUBUS PARVIFLORUS/ARALIA NUDICAULIS										RESOURCE INVENTORY									
ECOSYM UNIT			MW		5		O2:01:08 EDMONTON, ALBERTA TABLE 5 PAGE 1																			
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)																										
PLOT NUMBER																										
NUMBER OF SPECIES PER PLOT																										
SPECIES																										
A1 LAYER																										
1 POPU TRE							3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G							
2 POPU BAL							P157	P146	P161	P12A																
3 BETU PAP							29	28	27	25																
A2 LAYER							%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV									
POPU TRE							5	2	1	2	2	2	5	2	5	2	5	2								
POPU BAL							40	2	20	2	35	2	15	2	20	2	20	2								
4 SALT SPP							60.0	11.0	5	2	20	2	30	2	20	2	30	2								
BETU PAP							20.0	2.0	10	2																
B1 LAYER							%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV									
5 ALNU CRI							5	2	1	2	2	2	5	2	5	2	5	2								
SALT SPP							20.0	1.0	2	2	5	2	5	2	5	2	5	2								
POPU TRE							20.0	0.4	2	2																
6 PICE GLA							20.0	0.4	2	2																
B2 LAYER							%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV									
7 RUBU PAR							10	2	25	2	5	2	58	2	15	2	15	2								
8 VIBU EDU							100.0	9.4	18	2	8	2	10	2	10	2	1	2								
9 ROSA ACI							100.0	9.2	4	2	6	15	2	3	2	18	2	3	2							
10 SPIR BET							100.0	4.2	10	2	3	2	5	2	4	2	2	2								
ALNU CRI							60.0	2.6	3	2	6	2	4	2	4	2	2	2								
11 LONI INV							40.0	0.6	13	2	2	2	3	2	1	2	1	2								
12 AMEL ALN							40.0	0.6	2	2																
13 CORN STO							20.0	0.6	3	2	3	2														
14 SALT BEB							20.0	0.6	3	2	2	2														
15 RUBU IDA							20.0	0.4	2	2																
16 RIBE LAC							20.0	0.2	1	2																
SALT SPP							20.0	0.2	1	2																
17 SYMP ALB							20.0	0.2	1	2																
C LAYER							%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV									
18 ARAL NUD							8	2	18	2	5	2	15	2	20	2	1	2								
19 EPIL ANG							100.0	13.2	15	2	2	15	2	10	2	2	2	2								
20 ASTE CON							100.0	8.8	2	2	2	3	2	1	2	11	2	2								
21 LATH OCH							100.0	3.6	1	2	2	1	2	1	2	1	2	2								
22 SMIL RAC							80.0	3.8	3	2	6	2	10	2	2	2	1	2								
23 CORN CAN							80.0	3.2	8	2	5	2	2	2	1	2	1	2								
24 RUBU PUB							80.0	1.8	2	2	5	2	2	1	2	1	2	2								
25 MERT PAN							80.0	1.6	2	2	1	2	1	2	4	2	1	2								
26 MAIA CAN							80.0	1.4	2	2	1	2	1	2	1	2	3	2								
27 ARNI COR							60.0	1.2	1	2	4	2	1	2	1	2	1	2								
28 LINN BOR							60.0	1.2	1	2	4	2	1	2	1	2	1	2								
29 PYRO ASA							60.0	0.8	1	2	1	2	2	2	1	2	1	2								
30 GALI BOR							60.0	0.6	1	2	1	2	1	2	1	2	1	2								
31 PETA PAL							60.0	0.6	1	2	1	2	1	2	1	2	1	2								
32 MITE NUD							40.0	0.8	3	2	1	2	1	2	2	2	2	2								
33 DISP TRA							40.0	0.6	1	2	1	2	1	2	2	2	2	2								
34 EQUI SYL							40.0	0.4	1	2	1	2	1	2	2	2	2	2								
35 FRAG VIR							40.0	0.4	1	2	1	2	1	2	2	2	2	2								
36 THAL OCC							20.0	1.2	1	2	1	2	1	2	2	2	2	2								

LEVEL		ZONE	ASCT	TYPE	POPULUS TREMULOIDES/RUBUS PARVIFLORUS/ARALIA NUDICAULIS										RESOURCE INVENTORY		
ECOSYM UNIT		MW	5		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										O2:01:08	EDMONTON, ALBERTA	NOV 22, 1984
					TABLE 5										PAGE		2
PLOT NUMBER		AVERAGE VALUE		3G P157	3G P090	3G P146	3G P161	3G P12A									
NUMBER OF SPECIES PER PLOT		28.2		29	32	28	27	25									
SPECIES		%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV				
37 GYMN DRY		20.0	1.0	5	2												
38 ORTH SEC		20.0	0.4			2	2										
39 VIOL CAN		20.0	0.4					2	2								
40 ACTA RUB		20.0	0.2			1	2										
41 GALI TRI		20.0	0.2		1	2											
42 HIER ODO		20.0	0.2			1	2										
43 VICI AME		20.0	0.2									1	2				
G LAYER																	
44 CALA STR		80.0	1.6	1	2	1	2	5	2	1	2						
45 CALA SPP		20.0	0.2									1	2				
46 ORYZ ASP		20.0	0.2									1	2				
D LAYER																	
47 BRAC SAL		40.0	0.6	2	2	1	2										
48 HYLO SPL		20.0	0.2			1	2										
49 PTIL CRI		20.0	0.2		1	2											

ENVIRONMENT/SOILS-VEGETATION TABLES			POPULUS TREMULOIDES/RUBUS PARVIFLORUS/ARALIA NUDICAULIS										RESOURCE INVENTORY	
TITLE :			TABLE										5	
MW			3G	3G	3G	3G	3G	3G	3G	3G	3G	3G		
PLOT NUMBER			PI57	PO90	PI46	PI61	PI2A							
TOWNSHIP & RANGE			6611	68 8	67 2	65 2	67 7							
MERIDIAN			W	6	W	6	W	6	W	6	W	6		
MAPSHEET			83L	83L	83L	83L	83L	83L	83L	83L	83L	83L		
			12	14	16	9	15							
PHYSIOGRAPHIC SUBREGION														
GEOMORPHIC SYSTEM														
ECOSECTION														
ELEVATION(MASL)			831.0	900	765	825	870	795						
SLOPE(%)			9.8	2	10	6	16	15						
ASPECT(DEG)			320	128	196	142	202							
ENVIRONMENT/SOILS :														
-----														
ECOLOGICAL MOISTURE REGIME			SHG	M	M	SHG	M							
NUTRIENT REGIME			M	PM	M	PM	M							
OVERLYING MATERIAL			GFV	EV	GFV	MB	GL							
UNDERLYING MATERIAL			M1	GL1	MU	R1								
EROSION/DEPOSITION			E	BR	BR	BR	E							
SOIL SUBGROUP			EB	GL	GL	GL	EB							
SOIL GREAT GROUP			MW	W	MW	MW	W							
SOIL DRAINAGE														
SOLUM THICKNESS(CM)			39.0	38	37	42	39							
TYPE & DEPTH TO RESTRICT(CM)														
THICKNESS LFH(CM)			7.0	5	8	5	10							
PH-LFH														
-A			0.0	5.0	6.0	7.0	6.0	7.0						
-B			6.2	6.0	6.0	6.0	7.0	7.0						
-C			6.4	7.0	5.0	6.0	8.0	7.0						
TEXTURE-A/1			LS	SIL	S1	SL	SL							
-B/2			LS	SCL	SCL	SCL	SCL							
-C/3			SIL	SCL	SCL	SCL	S							
COARSE FRAGMENTS-B(%)			20.0											
SEEPAGE(*) & MOTTILING(CM)														
ROOTING DEPTH(CM)			0.0											
VEGETATION :														
-----														
ASSOCIATION														
STAND AGE(YR)			80.0	20	22	80	18	17						
CANOPY HEIGHT(M)			19.4											
MEAN ANNUAL INCREMENT			0.0											
STRATA COVERAGE(%) -A			43.0	40	25	55	35	60						
-B			67.0	60	80	40	80	75						
-C			49.0	45	60	40	30	70						
-G			1.6	1	1	5	0	1						
-D			1.0	2	3	0	0	0						
-L			0.0	0	0	0	0	0						
SURFACE SUBST(%) -DEAD WOOD			2.4	2	5	2	1	2						
-BEDROCK			0.0	0	0	0	0	0						
-STONES			0.0	0	0	0	0	0						
-MIN. SOIL			0.0	0	0	0	0	0						
-ORGANIC			97.6	98	95	98	99	98						
-OPEN WATER			0.0	0	0	0	0	0						
BIOMASS(KG/HA) -FORBS			0.0											
-GRAMINOID			0.0											
-BROWSE			0.0											

PINUS CONTORTA/VACCINIUM MYRTILLOIDES/CLADONIA SPP

RESOURCE INVENTORY  
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LEVEL	ZONE	ASSC TYPE
ECOSYM UNIT	6	
PLOT NUMBER		
NUMBER OF SPECIES PER PLOT		
SPECIES		
A1 LAYER		
1 PINU CON		
2 POPU TRE		
3 PINU BAN		
4 PICE GLA		
A2 LAYER		
PINU CON		
PICE GLA		
POPU TRE		
PINU BAN		
E LAYER		
5 BRYO FUS		
6 CETR HAL		
7 CETR PIN		
8 HYPO PHY		
9 PARM AMB		
10 USNE ALP		
11 USNE SCA		
12 USNE SCR		
B1 LAYER		
PICE GLA		
PINU CON		
POPU TRE		
13 SALI SCO		
B2 LAYER		
14 VACC MYR		
15 ROSA ACI		
POPU TRE		
16 SPIR BET		
17 SHEP CAN		
18 AMEL ALN		
19 LARI LAR		
PICE GLA		
PINU CON		
20 SALI GLA		
SALI SCO		
21 VIBU EDU		
C LAYER		
22 VACC VIT		
23 MAIA CAN		
24 ARCT UVA		
25 LINN BOR		
26 CORN CAN		
27 LATH OCH		
28 MELA LIN		
29 EQUI ARV		
30 GALI BOR		
31 PYRO CHL		

AVERAGE VALUE	3G P165	3G P101	3G P130	3G P197	3G PO17	GP
24.3	25	22	22	22	29	26
%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
83.3 24.2		10 2 35 2	35 2	25 2	40 3	
33.3 0.3		1 2		1 2		
16.7 2.5	15 2					
16.7 0.2					1 2	
50.0 2.0		2 2	5 2	5 2		
33.3 1.7	5 2					
33.3 0.3		1 2		1 2		
16.7 0.8	5 2					
16.7 0.1						.5 3
16.7 0.1						.5 3
16.7 0.1						.5 3
16.7 0.1						.5 3
16.7 0.1						.5 3
16.7 0.1						.5 3
33.3 0.7		1 2		3 2		
33.3 0.5		1 2		2 2		
16.7 0.3		2 2		2 2		
16.7 0.3						
83.3 7.3	5 2 17 2			1 2	1 2 20 3	
83.3 2.7	4 2 1 1			4 2 2 2	5 3	
66.7 1.2	2 2		3 2	1 2	1 2	
50.0 5.5	6 2	12 1			15 3	
50.0 2.5	6 2 1 2					
50.0 0.8	2 2			1 2	8 2	
33.3 0.3		1 2			2 2	.5 3
16.7 0.3		1 1				
16.7 0.2						
16.7 0.2	1 2					
16.7 0.2				1 2	1 2	
83.3 10.3	16 2	1 2		3 2	2 2 40 3	
83.3 1.8	2 2 1 2	2 2	2 2	1 2 5 2		
66.7 7.0	16 2 2	2 2		4 2 20 2		
66.7 4.0	1 2		6 2	2 2	2 2 15 3	
50.0 3.2	2 2		2 2		2 2	
33.3 0.7	2 2				3 2	
33.3 0.7	1 2					.5 2
33.3 0.3	1 2				1 2	
33.3 0.3		1 2		1 2	1 2	

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

LEVEL				ZONE		ASSC TYPE		PINUS CONTORTA/VACCINIUM MYRTILLOIDES/CLADONIA SPP														RESOURCE INVENTORY			
ECOSYM UNIT				MW		6		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 6 PAGE 2														EDMONTON, ALBERTA NOV 22, 1984			
								AVERAGE				3G		3G		3G		3G		3G		GP			
PLOT NUMBER								VALUE				P165		P101		P130		P197		P017		4106			
NUMBER OF SPECIES PER PLOT								24.3				25		22		22		22		29		26			
SPECIES								%P		MC		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV			
32 SOLT SPA								33.3		0.3				1 2				1 2							
33 GEOL LIV								16.7		0.2						1 2		1 2							
34 GOOD OBL								16.7		0.2						1 2									
35 LYCO COM								16.7		0.2		1 2													
36 ORTH SEC								16.7		0.2								1 2							
37 PYRO ASA								16.7		0.2						1 2									
G LAYER																									
38 ELYM INN								66.7		1.8		6 2		1 2		3 2				1 2					
39 CALA STR								16.7		0.2		1 2								1 2					
40 CARE PAU								16.7		0.2										1 2					
D LAYER																									
41 PLEU SCH								83.3		4.1		1 2				15 2		7 2		1 2		5 3			
42 PTIL CRI								50.0		0.4						1 2				1 2		5 3			
43 HVLO SPL								33.3		0.3								1 2		1 2					
44 POLY JUN								33.3		0.3				1 2						1 2					
45 DICR BRE								16.7		0.2		1 2													
46 DICR FUS								16.7		0.2				1 2											
47 DICR POL								16.7		0.2				1 2											
48 DICR SCO								16.7		0.2						1 2									
L LAYER																									
49 CLAD MIT								100.0		13.9		1 2		77 2		2 2		1 2		2 2		5 3			
50 CLAD CRI								50.0		0.5						1 2		1 2		1 2					
51 PELT MAL								50.0		0.4				1 2		1 2		1 2		1 2		5 3			
52 CLAD GRA								33.3		0.5				2 2		1 2									
53 CLAD RAN								33.3		0.3				1 2		1 2				1 2		5 3			
54 PELT APH								33.3		0.3						2 2									
55 PELT CAN								16.7		0.3				1 2											
56 CLAD COC								16.7		0.2				1 2											
57 STER TOM								16.7		0.2				1 2											
58 CETR NIV								16.7		0.1												5 3			
59 CLAD CEN								16.7		0.1												5 3			
60 CLAD CON								16.7		0.1												5 3			
61 CLAD STE								16.7		0.1												5 3			







TITLE :		PINUS CONTORTA/PLEUROZIVM SCHREBERI										TABLE 7	
MW		3G	3G	3G	3G	3G	3G	3G	3G	3G	3G		
PLOT NUMBER		3G	3G	3G	3G	3G	3G	3G	3G	3G	3G		
TOWNSHIP & RANGE		65 3	68 11	67 12	68 12	66 8	65 2	65 2	65 2	65 2	65 2		
MERIDIAN		W	W	W	W	W	W	W	W	W	W		
MAPSHEET		83L	83L	83L	83L	83L	83L	83L	83L	83L	83L		
PHYSIOGRAPHIC SUBREGION		9	13	13	13	13	13	13	13	13	13		
GEOMORPHIC SYSTEM													
ECOSECTION													
ELEVATION(MASL)		820.0	810	805	810	830	810	830	810	845	830		
SLOPE(%)		0.0	0	0	0	0	0	0	0	0	0		
ASPECT(DEG)													
ENVIRONMENT/SOILS :													
-----													
ECOLOGICAL MOISTURE REGIME													
NUTRIENT REGIME		SX	SM	SX	SM	SX	SM	SX	SM	SX	SM		
OVERLYING MATERIAL		SM	SM	SM	SM	SM	SM	SM	SM	SM	SM		
UNDERLYING MATERIAL		EV	GFU	FV	GFU	GFU	GFU	GFU	GFU	GFU	GFU		
EROSION/DEPOSITION		L1											
SOIL SUBGROUP		PZ	E	BR	E	BR	E	BR	E	BR	E		
SOIL GREAT GROUP		GL	EB	GL	EB	GL	EB	GL	EB	GL	EB		
SOIL DRAINAGE		W	W	W	W	R	W	W	W	W	W		
SOLUM THICKNESS(CM)		46.3	106	18	22	37	63	40	38				
TYPE & DEPTH TO RESTRICT(CM)													
THICKNESS LFH(CM)		6.7	7	9	5	8	5	5	5				
PH-LFH		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
-A		5.3	5.0	6.0	6.0	5.0	6.0	5.0	4.0				
-B		6.1	6.0	6.0	7.0	6.0	7.0	5.0	6.0				
-C		7.3	8.0	8.0	8.0	6.0	6.0	6.0	8.0				
TEXTURE-A/1		S	S	S	S	S	S	S	S				
-B/2		SIC	S	SCL	S	SCL	S	SCL	S				
-C/3		SIC	S	SIL	S	S	S	LS	SC				
COARSE FRAGMENTS-B(%)		37.5	60			44			15				
SEEPAGE(*) & MOTILING(CM)													
ROOTING DEPTH(CM)		0.0											
VEGETATION :													
-----													
ASSOCIATION													
STAND AGE(YR)		77.8	67	75	16	22	19	85	77				
CANOPY HEIGHT(M)		17.9	23	14				16	15				
MEAN ANNUAL INCREMENT		0.0											
STRATA COVERAGE(%) -A		38.6	35	30	25	40	50	40	50				
-B		33.3	70	50	43	25	20	10	15				
-C		15.7	15	30	25	10	15	10	5				
-G		2.1	2	2	5	3	1	1	1				
-D		78.4	75	60	50	85	95	85	85				
-L		2.6	2	0	2	5	0	5	4				
SURFACE SUBST(%) -DEAD WOOD		2.3	1	3	1	5	2	3	1				
-BEDROCK		0.0	0	0	0	0	0	0	0				
-STONES		0.1	0	0	0	0	1	0	0				
-MIN.SOIL		0.0	0	0	0	0	0	0	0				
-ORGANIC		97.6	99	97	99	95	97	97	99				
-OPEN WATER		0.0	0	0	0	0	0	0	0				
BIOMASS(KG/HA) -FORBS		0.0	0	0	0	0	0	0	0				
-GRAMINOIDS		0.0											
-BROWSE		0.0											

LEVEL		ZONE	ASSC TYPE	PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS										RESOURCE INVENTORY	
ECOSYM UNIT		MW	8	PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA	
				O2:01:08 NOV 22, 1984										TABLE 8 PAGE 1	
PLOT NUMBER				AVERAGE VALUE		3G PO59	3G P120	3G P147							
NUMBER OF SPECIES PER PLOT				32.3		34	32	31							
SPECIES				%P	MC	%C SV	%C SV	%C SV							
A1 LAYER															
1	PINU CON			100.0	35.0	45	2	40	2	20	2				
2	PICE GLA			66.7	4.0	2	2			10	2				
3	POPU TRE			66.7	2.3	5	2	2	2						
A2 LAYER															
	PINU CON			100.0	3.7	1	2	5	2	5	2				
	PICE GLA			66.7	2.7	3	2			5	2				
4	BETU PAP			66.7	1.3	2	2			2	2				
	POPU TRE			33.3	0.3	1	2								
5	SALI SCO			33.3	0.3	1	2								
B1 LAYER															
	ALNU CRI			66.7	2.0			1	2	5	2				
6	SALI GLA			33.3	0.7			2	2						
7	BETU OCC			33.3	0.3			1	2						
8	BETU PAP			33.3	0.3					1	2				
9	SALI SPP			33.3	0.3	1	2								
B2 LAYER															
10	VIBU EDU			100.0	4.7	5	2	8	2	1	2				
11	ROSA ACI			100.0	4.0	3	2	5	2	4	2				
12	SPIR BET			100.0	4.0	5	2	6	2	1	2				
	PICE GLA			100.0	1.7	1	1	1	2	3	2				
	BETU PAP			66.7	1.3	1	1			3	2				
13	ABIE LAS			66.7	1.0	1	2			2	2				
14	RUBU IDA			66.7	1.0			2	2	1	2				
15	AMEL ALN			33.3	4.7					14	2				
	ALNU CRI			33.3	1.0					3	2				
16	LONI INV			33.3	1.0	3	2								
	BETU OCC			33.3	0.7			2	2						
	POPU TRE			33.3	0.3			1	2						
17	RIBE LAC			33.3	0.3			1	2						
C LAYER															
18	ARAL NUD			100.0	14.3	4	2	21	2	18	2				
19	CORN CAN			100.0	6.3	5	2	10	2	4	2				
20	LINN BOR			100.0	3.0	2	2	6	2	1	2				
21	MAIA CAN			100.0	1.3	2	2	1	2	1	2				
22	PYRO ASA			100.0	1.3	1	2	2	2	1	2				
23	GALI TRI			100.0	1.0	1	2	1	2	1	2				
24	VIOL REN			100.0	1.0	1	2	1	2	1	2				
25	ASTE CON			66.7	2.3	4	2	3	2						
26	LYCO ANN			66.7	1.3			3	2	1	2				
27	SMIL RAC			66.7	1.0					2	2				
28	LATH OCH			66.7	0.7	1	2	1	2						
29	RUBU PUB			66.7	0.7			1	2	1	2				
30	ARNI COR			33.3	0.7	2	2								
31	GYMN DRY			33.3	0.7					2	2				
32	DISP TRA			33.3	0.3	1	2								
33	EPIL ANG			33.3	0.3					1	2				
34	MITE NUD			33.3	0.3			1	2						

LEVEL		ZONE		ASSC TYPE		PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS										RESOURCE INVENTORY			
ECOSYM UNIT		MW		8		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 8 PAGE 2										EDMONTON, ALBERTA			
						02:01:08 NOV 22, 1984													
PLOT NUMBER		AVERAGE		3G		3G		3G		3G		3G		3G					
		VALUE		PO59		P120		P147											
NUMBER OF SPECIES PER PLOT																			
SPECIES		%P		MC		%C SV		%C SV		%C SV		%C SV		%C SV					
35 ORTH SEC		33.3 0.3		1 2															
36 PETA PAL		33.3 0.3		1 2															
G LAYER																			
37 CALA CAN		33.3 0.3						1 2											
D LAYER																			
38 PLEU SCH		100.0 7.0		12 2		2 2		2 2		7 2									
39 HYLO SPL		100.0 5.0		4 2		1 2		10 2											
40 PTIL CRI		100.0 4.3		5 2		2 2		6 2											
41 DICR FRA		33.3 0.7						2 2		2 2									
42 DICR BRE		33.3 0.3		1 2															
L LAYER																			
43 CLAD GRA		33.3 0.3		1 2															

TITLE :	MW	8	PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS	3G	3G	3G	3G
PLOT NUMBER	MEAN	POS9	P120	P147			
TOWNSHIP & RANGE		W 6	W 6	W 6			
MERIDIAN		83L	83L	83L			
MAPSHEET		14	14	9			
PHYSIOGRAPHIC SUBREGION							
GEOMORPHIC SYSTEM							
ECOSECTION	800.0	820	800	780			
ELEVATION(MASL)	8.7	10	4	12			
SLOPE(%)		328	20	333			
ASPECT(DEG)							
ENVIRONMENT/SOILS :							
ECOLOGICAL MOISTURE REGIME		M	SM	M			
NUTRIENT REGIME		M	SM	SM			
OVERLYING MATERIAL		Fvt	E1	EV			
UNDERLYING MATERIAL		P1	GFm	GF1			
EROSION/DEPOSITION							
SOIL SUBGROUP		E	E	BR			
SOIL GREAT GROUP		EB	EB	GL			
SOIL DRAINAGE		W	W	W			
SOLUM THICKNESS(CM)	55.3	47	58	61			
TYPE & DEPTH TO RESTRICT(CM)		B120					
THICKNESS LFH(CM)	8.7	5	12	9			
pH-LFH	0.0						
-A	5.3	5.0	5.0	6.0			
-B	6.3	6.0	7.0	6.0			
-C	6.7	7.0	7.0	6.0			
TEXTURE-A/1		SL	S	S			
-B/2		S1CL	S	SCL			
-C/3		S	S	SCL			
COARSE FRAGMENTS-B(%)	30.0			30			
SEEPAGE(*) & MOTTILING(CM)				45			
ROOTING DEPTH(CM)	0.0						
VEGETATION :							
ASSOCIATION							
STAND AGE(YR)	84.5		89	80			
CANOPY HEIGHT(M)	23.0	22	20	27			
MEAN ANNUAL INCREMENT	0.0						
STRATA COVERAGE(%) -A	48.3	60	45	40			
-B	23.3	15	30	25			
-C	35.0	20	50	35			
-G	0.3	0	1	0			
-D	18.3	20	5	30			
-L	0.0	0	0	0			
SURFACE SUBST(%) -DEAD WOOD	7.7	10	10	3			
-BEDROCK	0.0	0	0	0			
-STONES	0.0	0	0	0			
-MIN. SOIL	0.0	0	0	0			
-ORGANIC	0.0	0	0	0			
-OPEN WATER	92.3	90	90	97			
BIOMASS(KG/HA) -FORBS	0.0						
-GRAMINIDS	0.0						
-BROWSE	0.0						

LEVEL			ZONE		ASSC TYPE		PICEA MARIANA-PINUS CONTORTA/LEDUM GROENLANDICUM/PLEUROZIIUM														RESOURCE INVENTORY			
ECOSYM UNIT			MW		9		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)														O2:01:08 NOV 22, 1984			
							TABLE 9														PAGE 1			
PLOT NUMBER							AVERAGE VALUE		3G P193	3G P110	3G P192	3G P105	3G P143	3G P162	3G P111									
NUMBER OF SPECIES PER PLOT							24.1		21	22	20	19	21	26	40									
SPECIES							%	MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV									
A1 LAYER																								
1 PINU CON							100.0	9.6	10	2	20	2	15	2	5	2	1	2						
2 PICE MAR							71.4	13.0	5	2					50	2	1	2						
3 BETU PAP							14.3	0.1																
4 LARI LAR							14.3	0.1								1	2							
A2 LAYER																								
PICE MAR							100.0	23.6	20	2	20	2	45	2	15	2	50	2	5	2				
PINU CON							57.1	1.1	1	2	1	2	1	2										
5 ALNU TEN							14.3	0.3								2	2							
LARI LAR							14.3	0.1																
6 SALI SPP							14.3	0.1							1	2								
B1 LAYER																								
PICE MAR							85.7	2.0	3	2	2	2	5	2	1	2	2	2						
PINU CON							14.3	0.1										1	2					
SALI SPP							14.3	0.1								1	2							
B2 LAYER																								
7 LEDU GRO							85.7	7.9	40	2	1	2	10	2	1	2	1	2	2	2				
8 VACC MYR							85.7	2.0	1	2	3	2			1	2	2	2	6	2				
9 ROSA ACI							85.7	1.4	1	2	2	2	1	2	1	2	3	2	2	2				
10 LONI INV							71.4	0.9	1	2	1	2	1	2	2	2	1	2						
PICE MAR							57.1	2.1	2	2	8	2	3	2			2	2	2	2				
11 SHEP CAN							28.6	5.1			35	2					1	2						
12 ABIE LAS							28.6	0.3	1	2	1	2												
13 BETU GLA							14.3	0.4									3	2						
14 SPIR BET							14.3	0.4	3	2														
15 SALI OCC							14.3	0.3								1	2	2	2					
16 ALNU CRI							14.3	0.1								1	2							
17 POPU TRE							14.3	0.1																
18 SALI GLA							14.3	0.1																
19 VIBU EDU							14.3	0.1							1	2								
C LAYER																								
20 CORN CAN							100.0	4.7	4	2	4	2	1	2	2	2	10	2	8	2	4	2		
21 LINN BOR							85.7	1.1	1	2	1	2	1	2	1	2	2	2	2					
22 VACC VIT							71.4	0.9	1	2	2	2	1	2	1	2	1	2						
23 VACC CAE							57.1	1.4	1	2	1	2	1	2					6	2				
24 EPIL ANG							28.6	0.4									2	2						
25 GAUL HIS							28.6	0.4	2	2					1	2								
26 MITE NUD							28.6	0.4							1	2			2	2	2	2		
27 PETA PAL							28.6	0.4											3	2	2	2		
28 ANTE NEG							14.3	0.4											2	2				
29 LYCO CLA							14.3	0.3																
30 RUBU PUB							14.3	0.3										2	2					
31 ARNI COR							14.3	0.1												1	2			
32 CAST MIN							14.3	0.1											1	2				
33 EQUI PRA							14.3	0.1											1	2				
34 EQUI SCI							14.3	0.1											1	2				
35 EQUI SYL							14.3	0.1													1	2		
36 FRAG VIR							14.3	0.1													1	2		

LEVEL ZONE ASSC TYPE

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
O2:01:08 NOV 22, 1984  
TABLE 9 PAGE 2

PICEA MARIANA-PINUS CONTORTA/LEDUM GROENLANDICUM/PLEUROZTIUM

ECOSYM UNIT MW 9 PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	3G P193	3G P110	3G P192	3G P105	3G P143	3G P162	3G P111
NUMBER OF SPECIES PER PLOT	24.1	21	22	20	19	21	26	40
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
37 HIER UMB	14.3 0.1							1 2
38 LYCO ANN	14.3 0.1					1 2		1 2
39 MELA LIN	14.3 0.1						1 2	
40 MERT PAN	14.3 0.1						1 2	
41 OXYC MIC	14.3 0.1						1 2	
42 PYRO ASA	14.3 0.1					1 2		
43 RIBE TRI	14.3 0.1						1 2	1 2
44 SMIL TRI	14.3 0.1							
45 VALE DIO	14.3 0.1					1 2		
G LAYER								
46 ELYM INN	57.1 0.6	1 2	1 2	1 2				1 2
47 CALA STR	28.6 0.3		1 2					1 2
48 CARE CAP	14.3 0.3							2 2
49 CARE DIS	14.3 0.1		1 2					
50 ORYZ EXT	14.3 0.1							1 2
D LAYER								
51 PLEU SCH	100.0 50.0	97 2 45	2 56	2 61	2 45	2 38	2 8	2 8
52 HYLD SPL	100.0 22.3	1 2 5	2 3	2 26	2 45	2 43	2 33	2 2
53 PTIL CRI	100.0 12.1	1 2 30	2 29	2 6	2 5	2 13	2 1	2 2
54 DICR POL	42.9 1.0				1 2	5 2	1 2	
55 AULA PAL	14.3 0.1		1 2					1 2
56 BARB LYC	14.3 0.1							
57 DICR SCO	14.3 0.1							1 2
58 SPHA NEM	14.3 0.1				1 2			
L LAYER								
59 PELT APH	57.1 1.3	1 2			1 2	5 2		2 2
60 CLAD MIT	28.6 2.9			1 2				19 2
61 CLAD GRA	14.3 0.3							2 2
62 STER TOM	14.3 0.3							2 2
63 CLAD CRI	14.3 0.1			1 2				
64 PELT MAL	14.3 0.1				1 2			

PLOT NUMBER TOWNSHIP & RANGE MERIDIAN MAPSHEET	MEAN	PICEA MARIANA-PINUS CONTORTA/LEUDUM GROEWLANDICUM/PLEUROZIIUM									
		3G	3G	3G	3G	3G	3G	3G	3G	3G	3G
193	64	3	67	8	65	3	64	4	66	11	65
W	6	W	6	W	6	W	6	W	6	W	6
83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L
9	9	14	9	10	12	9	14				
PHYSIOGRAPHIC SUBREGION											
GEOMORPHIC SYSTEM											
ECOSECTION											
ELEVATION(MASL)	807.9	820	805	790	840	850	735	815			
SLOPE(%)	1.4	5	1	0	3	0	1	0			
ASPECT(DEG)	54	336			270	360					
ENVIRONMENT/SOILS :											
ECOLOGICAL MOISTURE REGIME											
NUTRIENT REGIME		SHG	SHG	SHG	SHG	SHG	SHG	SHG	SHG	SHG	M
OVERLYING MATERIAL		SM	SM	SM	SM	SM	SM	SM	SM	SM	
UNDERLYING MATERIAL		GF	E	Evr	GL	GFb	Mv1	GL	R		
EROSION/DEPOSITION											
SOIL SUBGROUP		BR	0	GL	GLBR	GL	GL	GL	GL	GL	
SOIL GREAT GROUP		GL	LG	EB	GL	GL	GL	GL	GL	GL	
SOIL DRAINAGE		MW	I	I	MW	I	I	I	I	I	
SOLUM THICKNESS(CM)	37.4	65	30	25	48	19					
TYPE & DEPTH TO RESTRICT(CM)											
THICKNESS LFH(CM)	9.6	9	8	8	5	18					
PH-LFH	0.0										
-A	5.6	4.0	6.0	5.0	5.0	8.0					
-B	0.0										
-C	6.4	5.0	7.0	8.0	8.0	8.0					
TEXTURE-A/1	7.8	5	SL	SL	SL	SL					
-B/2		SCL	SL	CL	LS	SCL					
-C/3		S	SL	CL	LS	SC					
COARSE FRAGMENTS-B(%)	22.0		19			25					
SEEPAGE(+) & MOTTILING(CM)		45		40	* 36	9					
ROOTING DEPTH(CM)	0.0										
VEGETATION :											
ASSOCIATION											
STAND AGE(YR)	75.7	87	87	72	78	85	45				
CANOPY HEIGHT(M)	18.0	22	20	22	17	19	13				
MEAN ANNUAL INCREMENT	0.0										
STRATA COVERAGE(%) -A	46.4	35	40	60	60	60	55	15			
-B	22.1	50	15	60	5	5	5	15			
-C	11.0	10	5	2	5	20	15	20			
-G	1.3	1	2	1	0	0	0	5			
-D	86.7	99	80	95	95	99	95	44			
-L	1.1	1	0	1	1	5	0	0			
SURFACE SUBST(%) -DEAD WOOD	2.9	1	5	1	0	10	3	0			
-BEDROCK	0.0	0	0	0	0	0	0	0			
-STONES	0.0	0	0	0	0	0	0	0			
-MIN. SOIL	0.0	0	0	0	0	0	0	0			
-ORGANIC	97.1	99	95	99	100	90	97	100			
-OPEN WATER	0.0	0	0	0	0	0	0	0			
-FORBS	0.0	0	0	0	0	0	0	0			
-GRAMINOIDS	0.0										
-BROWSE	0.0										

LEVEL		ZONE	ASSC	TYPE	PICEA GLAUCA/LONICERA INVOLUCRATA/RUBUS PUBESCENS										RESOURCE INVENTORY									
ECOSYM UNIT		MW	10		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA O2:01:08 NOV 22, 1984 TABLE 10 PAGE 1									
PLOT NUMBER																								
NUMBER OF SPECIES PER PLOT																								
SPECIES																								
A1 LAYER																								
1	PICE GLA	AVERAGE VALUE	3G P187	3G P191	3G P204	3G P114	3G 202A																	
2	POPU TRE	28.0	18	36	36	33	17																	
3	ABIE LAS	%P	MC	%C SV	%C SV	%C SV	%C SV																	
4	BETU PAP	100.0	29.0	55	2	35	2	10	2	35	2	10	2											
5	PICE MAR	80.0	2.8	1	2	10	2	10	2	10	2	10	2											
6	POPU BAL	20.0	0.4			2	2						2	2										
7	ABIE BAL	20.0	0.2					1	2															
A2 LAYER																								
1	PICE GLA	80.0	7.2	5	2	1	2	10	2				20	2										
2	BETU PAP	40.0	1.4	5	2			2	2															
3	POPU TRE	40.0	1.2			5	2			1	2													
4	PICE MAR	20.0	2.0										10	2										
5	ABIE LAS	20.0	1.0			5	2			1	2													
6	ABIE BAL	20.0	0.2									1	2											
8	ALNU TEN	20.0	0.2							1	2													
9	POPU BAL	20.0	0.2																					
B1 LAYER																								
1	BETU PAP	40.0	2.0			5	2	5	2															
2	PICE GLA	40.0	0.6					2	2			1	2											
3	ALNU TEN	40.0	0.4			1	2																	
4	POPU TRE	20.0	0.4					2	2															
5	ABIE BAL	20.0	0.2					1	2															
6	PICE MAR	20.0	0.2										1	2										
B2 LAYER																								
9	LONI INV	100.0	4.8	3	2	8	2	10	2	2	2	2	1	2										
10	ROSA ACI	80.0	3.8	2	2	4	2	11	2	2	2	2	2	1										
11	VIBU EDU	80.0	3.8	2	2	5	2	10	2	2	2	2	2											
12	ALNU TEN	40.0	2.6			1	2	2	2			12	2											
13	PICE GLA	40.0	0.8			2	2	2	2															
14	ABIE LAS	40.0	0.4	1	2	1	2																	
15	BETU PAP	20.0	0.4			2	2																	
16	CORN STO	20.0	0.4			2	2																	
17	POPU TRE	20.0	0.4					2	2															
18	ALNU CRI	20.0	0.2							1	2													
19	POPU BAL	20.0	0.2																					
20	RIBE TRI	20.0	0.2			1	2																	
21	RUBU IDA	20.0	0.2			1	2																	
22	SYMP ALB	20.0	0.2									1	2											
C LAYER																								
17	LINN BOR	100.0	4.8	4	2	1	2	5	2	11	2	3	2											
18	MITE NUD	100.0	1.2	1	2	1	2	2	2	1	2	1	2											
19	CORN CAN	80.0	4.0	3	2	5	2	10	2	2	2													
20	RUBU PUB	80.0	3.6	3	2	8	2	3	2	4	2													
21	VIOL REN	80.0	0.8	1	2	1	2	1	2	1	2													
22	PETA PAL	60.0	0.6	1	2			1	2	1	2													
23	EQUI PRA	40.0	1.6			5	2					3	2											
24	ASTE CIL	40.0	0.6			1	2			2	2													

LEVEL			ZONE	ASSC	TYPE	PICEA GLAUCA/LONICERA INVOLUCRATA/RUBUS PUBESCENS												RESOURCE INVENTORY	
ECOSYM UNIT			MW	10		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)												EDMONTON, ALBERTA	
						O2:01:08 NOV 22, 1984												TABLE 10 PAGE 2	
PLOT NUMBER																			
NUMBER OF SPECIES PER PLOT																			
SPECIES																			
25 MERT PAN						AVERAGE	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G			
26 EQUI SYL						VALUE	P187	P191	P204	P114	P202A								
27 FRAG VIR						28.0	18	36	36	33	17								
28 GALI BOR						%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV		
29 LATH OCH						40.0	0.6	1	2	2	2	1	2	1	2	1	2		
30 MAIA CAN						40.0	0.4			1	2	1	2	1	2				
31 ARAL NUD						40.0	0.4			1	2	1	2	1	2				
32 EPIL ANG						20.0	3.8	19	2			4	2						
33 ASTE CON						20.0	0.8					3	2						
34 PYRO ASA						20.0	0.6	3	2										
35 GALI TRI						20.0	0.2	1	2					1	2				
36 GAUL HIS						20.0	0.2												
37 GYMN DRY						20.0	0.2	1	2										
38 LYCO ANN						20.0	0.2	1	2										
39 ORTH SEC						20.0	0.2					1	2						
40 RIBE LAC						20.0	0.2					1	2						
41 RUBU CHA						20.0	0.2							1	2				
42 VALE DIO						20.0	0.2					1	2						
G LAYER																			
43 CALA STR						40.0	0.8	1	2	3	2								
44 ELYM INN						20.0	0.2					1	2						
D LAYER																			
45 PLEU SCH						100.0	20.0	10	2	32	2	9	2	4	2	45	2		
46 PTIL CRI						100.0	18.0	3	2	12	2	55	2	7	2	13	2		
47 HYLO SPL						100.0	11.2	19	2	9	2	7	2	8	2	13	2		
48 BRAC STA						20.0	0.2					1	2						
49 DICR BRE						20.0	0.2						1	2					
50 DICR UND						20.0	0.2						1	2					
L LAYER																			
51 PELT APH						40.0	1.2					4	2	2	2				
52 PELT CAN						20.0	0.4												

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TABLE 10

MW

	3G	3G	3G	3G	3G	3G	3G	3G	3G
PLOT NUMBER	P187	P191	P204	P114	202A				
TOWNSHIP & RANGE	66 1	65 4	67 5	6803	68 5				
MERIDIAN	W	6	W	6	W				
MAPSHEET	83L	83L	83L	83L	83L				
PHYSIOGRAPHIC SUBREGION	9	15	13	15					
GEOMORPHIC SYSTEM									
ECOSECTION									
ELEVATION(MASL)	742.0	805	790	720	700	695			
SLOPE(%)	1.6	1	5	1	0	1			
ASPECT(DEG)		358	40	16		164			
ENVIRONMENT/SOILS :									
ECOLOGICAL MOISTURE REGIME	HG	SHG	SHG	SHG	SHG	SHG			
NUTRIENT REGIME	M	PM	M	PM	FV	M			
OVERLYING MATERIAL	GF1		GFV	GL1	Mu				
UNDERLYING MATERIAL									
EROSION/DEPOSITION									
SOIL SUBGROUP	O	E	GL	GLBR					
SOIL GREAT GROUP	LG	EB	GL	GL					
SOIL DRAINAGE	I	I	I	I					
SOLUM THICKNESS(CM)	41.0	23	75	25					
TYPE & DEPTH TO RESTRICT(CM)									
THICKNESS LFH(CM)	10.0	10	5	15					
pH-LFH	0.0								
-A	5.0	4.0		4.0	7.0				
-B	5.7	5.0		5.0	7.0				
-C	6.3	6.0		6.0	7.0				
TEXTURE-A/1	SIL	SIC	SIC	SIC	SIC				
-B/2	S								
-C/3									
COARSE FRAGMENTS-B(%)	0.0			6	15				
SEEPAGE(*) & MOTTLING(CM)									
ROOTING DEPTH(CM)	0.0								
VEGETATION :									
ASSOCIATION									
STAND AGE(YR)	119.7	78	137	144					
CANOPY HEIGHT(M)	26.0	20	30	32	23	25			
MEAN ANNUAL INCREMENT	0.0								
STRATA COVERAGE(%) -A	45.0	60	50	35	40	40			
-B	19.6	10	25	45	15	3			
-C	21.4	10	45	20	25	7			
-G	1.0	0	1	3	1	0			
-D	47.0	30	50	70	15	70			
-L	1.4	0	0	4	3	0			
SURFACE SUBST(%) -DEAD WOOD	11.0	10	5	15	5	20			
-BEDROCK	0.0	0	0	0	0	0			
-STONES	0.0	0	0	0	0	0			
-MIN. SOIL	0.0	0	0	0	0	0			
-ORGANIC	89.0	90	95	85	95	80			
-OPEN WATER	0.0	0	0	0	0	0			
-FORBS	0.0								
-GRAMINOIDS	0.0								
-BROWSE	0.0								

## PICEA MARIANA/LEDUM GROENLANDICUM/PLEUROZTIUM SCHREBERI

RESOURCE INVENTORY  
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PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 11 PAGE 1

LEVEL	ZONE	ASSC TYPE
ECOSYM UNIT	MW	11
PLOT NUMBER		
NUMBER OF SPECIES PER PLOT		
SPECIES		
A1 LAYER		
1 PICE MAR		
2 LARI LAR		
3 PICE GLA		
4 PINU CON		
A2 LAYER		
PICE MAR		
PICE GLA		
LARI LAR		
PINU CON		
B1 LAYER		
PICE MAR		
B2 LAYER		
5 LEDU GRO		
6 LONI INV		
7 ROSA ACI		
PICE MAR		
8 SALI PLA		
9 SALI MYR		
10 SALI SPP		
11 VACC MYR		
12 BETU GLA		
13 BETU OCC		
14 BETU PUM		
15 RIBE OXY		
C LAYER		
16 LINN BOR		
17 EQUI SCI		
18 VACC VIT		
19 CORN CAN		
20 MITE NUD		
21 PETA PAL		
22 EQUI PRA		
23 SMIL TRI		
24 ACHI MIL		
25 MERT PAN		
26 EQUI SVL		
27 RUBU PUB		
28 GALI BOR		
29 ORTH SEC		
30 OXYC MIC		
31 EQUI ARV		
32 ANEM PAR		
33 GEUM TRI		
34 MAIA CAN		
35 RUBU ACU		
36 RUBU CHA		

AVERAGE VALUE	3G P186	3G P028	3G P202	3G P027	3G P168	3G P037
25.0	18	31	13	28	33	27
%P	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
100.0 25.0	15 2 30 2	5 2 60 2	20 2 5 2	20 2 20 2	20 2	
33.3 1.3	4 2		1 2	4 2	5 2	
33.3 1.0						
16.7 0.8	5 2					
100.0 12.3	2 2 20 2	40 2 2 2	5 2	2 2	5 2	
16.7 0.8						
16.7 0.3	2 2				2 2	
16.7 0.3						
33.3 1.3		3 2				5 2
100.0 20.7	50 2 55 2	1 2	2 2 4 2	12 2		
66.7 2.7	1 2 2 2		9 2 4 2			
66.7 1.2	1 2 3 2		2 2 1 2			
50.0 1.0	2 2 1 2					3 2
33.3 1.0			1 2			5 2
33.3 0.3		1 2				1 2
16.7 0.3			2 2			
16.7 0.2	2 2					
16.7 0.2		1 2				
16.7 0.2						1 2
16.7 0.2				1 2		
100.0 1.3	2 2	2 2	1 2	1 2	1 2	1 2
100.0 1.0	1 2	1 2	1 2	1 2	1 2	1 2
83.3 1.2	2 2 1 2			1 2 1 2	2 2	
66.7 2.3	4 2	1 2		2 2 7 2		
66.7 1.0		1 2		2 2 2 2	1 2	
66.7 0.8		1 2		1 2 2 2	1 2	
50.0 1.7	1 2		1 2	8 2		
50.0 0.7		1 2			2 2	1 2
50.0 0.5		1 2		1 2	1 2	
33.3 0.8	2 2				3 2	
33.3 0.5		2 2				1 2
33.3 0.5			1 2	2 2		
33.3 0.3					1 2	1 2
33.3 0.3	1 2				1 2	1 2
16.7 1.8					11 2	
16.7 0.2					1 2	
16.7 0.2					1 2	
16.7 0.2					1 2	
16.7 0.2					1 2	1 2

PICEA MARIANA/LEDUM GROENLANDICUM/PLEUROZIVM SCHREBERI

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 11 PAGE 2

PLOT NUMBER	3G	3G	3G	3G	3G	3G	3G
TOWNSHIP & RANGE	P186	P028	P202	P027	P168	P037	
MERIDIAN	W 6	W 6	W 6	W 6	W 6	W 6	
MAPSHEET	83L	83L	83L	83L	83L	83L	
PHYSIOGRAPHIC SUBREGION	9	10	15	10	12	11	
GEOMORPHIC SYSTEM							
ECOSECTION	835	850	695	780	850	810	
ELEVATION(MASL)	0	1	1	0	0	0	
SLOPE(%)	0.3	256	156				
ASPECT(DEG)							
ENVIRONMENT/SOILS :							
-----							
ECOLOGICAL MOISTURE REGIME	HG	SHD	HG	SHD	SHD	SHD	
NUTRIENT REGIME	SM	SM	M	M	M	SM	
OVERLYING MATERIAL		DV	GLV	OV	GL1	OV	
UNDERLYING MATERIAL		GL1	GF1	GL	GL1	GL1	
EROSION/DEPOSITION							
SOIL SUBGROUP	O	T	O	T	T	T	
SOIL GREAT GROUP	LG	M	LG	M	M	M	
SOIL DRAINAGE	I	VP	P	P	P	VP	
SOLUM THICKNESS(CM)	33	40	75	40	50	42	
TYPE & DEPTH TO RESTRICT(CM)					W 10		
THICKNESS LFH(CM)	10.3	15	12	4			
pH-LFH	-A						
-B							
-C							
TEXTURE-A/1							
-B/2							
-C/3							
COARSE FRAGMENTS-B(%)							
SEEPAGE(+) & MOTTLING(CM)	0.0	0	* 25		* 50	*	
ROOTING DEPTH(CM)	0.0						
VEGETATION :							
-----							
ASSOCIATION							
STAND AGE(YR)	125.3	125	125	139	112		
CANOPY HEIGHT(M)	16.8	20	10	17	24	14	
MEAN ANNUAL INCREMENT	0.0						
STRATA COVERAGE (%) -A	40.8	30	50	60	30	25	
-B	26.8	55	60	15	10	20	
-C	13.0	10	3	15	30	10	
-G	7.3	2	0	2	36	2	
-D	87.3	80	95	99	75	95	
-L	1.3	1	2	4	1	0	
SURFACE SUBST(%) -DEAD WOOD	3.7	0	1	15	5	0	
-BEDROCK	0.0	0	0	0	0	0	
-STONES	0.0	0	0	0	0	0	
-MIN. SOIL	0.0	0	0	0	0	0	
-ORGANIC	77.5	0	98	85	94	93	
-OPEN WATER	2.2	0	1	5	2	5	
BIO MASS(KG/HA) - FORBS	0.0						
-GRAMINOIDS	0.0						
-BROWSE	0.0						

## LARIX LARICINA-PICEA MARIANA/CAREX SPP/SPHAGNUM SPP

RESOURCE INVENTORY  
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VIGOR (V) TABLE 12 PAGE 1

LEVEL	ZONE	ASSC TYPE	ECOSYM UNIT	MW	12	PRESENCE (%)	MEAN COVER (MC)	PERCENT COVER (%)	SOCIABILITY (S)	VIGOR (V)	TABLE 12	PAGE 1
PLOT NUMBER						AVERAGE VALUE	3G 183A	3G P194	3G P112	3G P123	3G P124	
NUMBER OF SPECIES PER PLOT						22.2	13	17	39	20	22	
SPECIES						%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	
A1 LAYER												
1 LARI LAR						80.0 5.6	15 2	2 10	2 2		1 2	
2 PICE MAR						60.0 1.2		1 2		2 2	3 2	
3 LEDU GRO						20.0 10.0					50 2	
A2 LAYER												
PICE MAR						60.0 3.0						
LARI LAR						40.0 2.2		10 2		5 2	5 2	
LEDU GRO						20.0 8.0					40 2	
B1 LAYER												
PICE MAR						60.0 2.2		5 2		5 2	1 2	
LARI LAR						40.0 2.2		10 2			1 2	
4 SALI MYR						20.0 1.0		5 2				
B2 LAYER												
PICE MAR						60.0 3.6		2 2	12 2	4 2		
LARI LAR						60.0 0.6		1 2			1 2	
LEDU GRO						40.0 9.4						
5 BETU OCC						40.0 1.8		2 2	7 2	40 2		
SALI MYR						40.0 0.6		2 2				
6 BETU SPP						20.0 8.0	40 2					
7 BETU GLA						20.0 6.0	30 2					
8 SALI SPP						20.0 2.0	10 2					
9 LONI INV						20.0 1.0			5 2			
10 SALI DRU						20.0 0.4			2 2			
11 RIBE INE						20.0 0.2			1 2			
12 RIBE TRI						20.0 0.2			1 2			
13 SALI BEB						20.0 0.2			1 2			
14 SALI PLA						20.0 0.2			1 2			
15 SHEP CAN						20.0 0.2			1 2			
C LAYER												
16 SMIL TRI						60.0 4.2		2 2		12 2	7 2	
17 OXYC MIC						60.0 0.6	1 2			1 2	1 2	
18 RUBU CHA						40.0 1.8				8 2	1 2	
19 ANDR POL						40.0 1.2				1 2	5 2	
20 RUBU ARC						40.0 0.6						
21 MENY TRI						20.0 4.0	20 2	1 2	2 2			
22 EQUI ARV						20.0 1.0	5 2					
23 PETA SAG						20.0 0.6			3 2			
24 BETU PUM						20.0 0.4	2 2		2 2			
25 EQUI PRA						20.0 0.4			2 2			
26 MERT PAN						20.0 0.4			2 2			
27 MITT NUD						20.0 0.4			2 2			
28 ASTE SUB						20.0 0.2			1 2			
29 EPIL GIL						20.0 0.2		1 2				
30 EQUI SCI						20.0 0.2			1 2			
31 EQUI SYL						20.0 0.2			1 2			
32 FRAG VIR						20.0 0.2			1 2			
33 GALI BOR						20.0 0.2			1 2			
34 KALM POL						20.0 0.2	1 2					

RESOURCE INVENTORY

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MW

LARIX LARICINA-PICEA MARIANA/CAREX SPP/SPIAGNUM SPP

TABLE 12

TITLE :		3G									
PLOT NUMBER		MEAN	183A	P194	P112	P123	P124				
TOWNSHIP & RANGE		65 2 64 1	67 8 68 7	67 7	67 6	67 6	67 6				
MERIDIAN		83L	83L	83L	83L	83L	83L				
MAPSHEET		9	9	14	14	14	14				
PHYSIOGRAPHIC SUBREGION											
GEOMORPHIC SYSTEM											
ECOSECTION											
ELEVATION(MASL)		766.0	810	815	780	705	720				
SLOPE(%)		0.0	0	0	0	0	0				
ASPECT(DEG)											
ENVIRONMENT/SOILS :											
ECOLOGICAL MOISTURE REGIME			SHD	SHD	SHD	SHD	HD				
NUTRIENT REGIME			PM	PM	M	SM	PM				
OVERLYING MATERIAL						D	Oo				
UNDERLYING MATERIAL						GFS					
EROSION/DEPOSITION											
SOIL SUBGROUP				O		TV	TY				
SOIL GREAT GROUP				G		M	M				
SOIL DRAINAGE				P		VP	VP				
SOLUM THICKNESS(CM)		120.0				W	120				
TYPE & DEPTH TO RESTRICT(CM)											
THICKNESS LFH(CM)		0.0									
PH-LFH		0.0									
-A		0.0									
-B		0.0									
-C		0.0									
TEXTURE-A/1						m	f				
-B/2											
-C/3											
COARSE FRAGMENTS-B(%)		0.0				*					
SEEPAGE (+) & MOTTILING(CM)											
ROOTING DEPTH(CM)		0.0									
VEGETATION :											
ASSOCIATION											
STAND AGE(YR)		67.0		10	50	84					
CANOPY HEIGHT(M)		8.7			8						
MEAN ANNUAL INCREMENT		0.0									
STRATA COVERAGE(%) -A		11.8	15	2	25	5					
-B		46.0	50	35	40	55	50				
-C		18.0	30	5	15	25	15				
-G		11.4	10	30	10	2	5				
-D		87.6	99	95	60	85	99				
-L		2.2	0	0	0	10	1				
SURFACE SUBST(%) -DEAD WOOD		0.6	0	0	1	2	0				
-BEDROCK		0.0	0	0	0	0	0				
-STONES		0.0	0	0	0	0	0				
-MIN. SOIL		0.0	0	0	0	0	0				
-ORGANIC		78.0	0	99	94	99	98				
-OPEN WATER		1.8	0	1	5	1	2				
BIOMASS(KG/HA) -FORBS		0.0									
-GRAMINOIDS		0.0									
-BROWSE		0.0									

LEVEL		ZONE	ASSC	TYPE	PICEA GLAUCA/ROSA ACICULARIS/ELYMUS INNOVATUS					RESOURCE INVENTORY		
ECOSYM UNIT		MW	113		EDMONTON, ALBERTA					O2:01-08 NOV 22, 1984		
					PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 13					PAGE 1		
PLOT NUMBER					AVERAGE	3G	3G	3G				
					VALUE	P075	P092					
NUMBER OF SPECIES PER PLOT					36.0	37	35					
SPECIES					%P	MC	%C	SV	%C	SV		
A1 LAYER												
1 PICE GLA					100.0	22.5	15	2	30	2		
2 PINU BAN					50.0	2.5	5	2				
3 POPU BAL					50.0	2.5			5	2		
A2 LAYER												
PICE GLA					100.0	3.0	5	2	1	2		
POPU BAL					50.0	2.5			5	2		
4 POPU TRE					50.0	2.5	5	2				
5 BETU PAP					50.0	0.5	1	2				
PINU BAN					50.0	0.5	1	2				
B1 LAYER												
6 ALNU CRI					50.0	2.5	5	2				
PICE GLA					50.0	0.5	1	2				
POPU BAL					50.0	0.5			1	2		
B2 LAYER												
7 ROSA ACT					100.0	10.0	10	2	10	2		
PICE GLA					100.0	1.0	1	2	1	2		
8 AMEL ALN					50.0	5.0			10	2		
9 RUBU IDA					50.0	4.0			8	2		
10 CORY COR					50.0	3.5			7	2		
ALNU CRI					50.0	1.5	3	2				
POPU TRE					50.0	1.5			3	2		
11 VACC MYR					50.0	1.5	3	2				
12 VIBU EDU					50.0	1.5			3	2		
13 LEDU GRO					50.0	1.0	2	2				
14 LONI INV					50.0	1.0			2	2		
15 SPIR BET					50.0	1.0			2	2		
16 BETU OCC					50.0	0.5			1	2		
17 SHEP CAN					50.0	0.5	1	2				
C LAYER												
18 LINN BOR					100.0	7.0	9	2	5	2		
19 CORN CAN					100.0	5.5	7	2	4	2		
20 EPIL ANG					100.0	1.0	1	2	1	2		
21 GALI BOR					100.0	1.0	1	2	1	2		
22 LATH OCH					100.0	1.0	1	2	1	2		
23 MAIA CAN					100.0	1.0	1	2	1	2		
24 ARAL NUD					50.0	3.0			6	2		
25 LYCO COM					50.0	3.0	6	2				
26 ARCT UVA					50.0	2.5	5	2				
27 ASTE GON					50.0	0.5			1	2		
28 FRAG VIR					50.0	0.5	1	2				
29 GEOD LIV					50.0	0.5	1	2				
30 HALE DEF					50.0	0.5	1	2				
31 MERT PAN					50.0	0.5			1	2		
32 MITE NUD					50.0	0.5			1	2		
33 ORTH SEC					50.0	0.5	1	2				
34 PETA PAL					50.0	0.5			1	2		
35 PYRO ASA					50.0	0.5			1	2		

LEVEL		ZONE	ASSC	TYPE	PICEA GLAUCA/ROSA ACICULARIS/ELYMUS INNOVATUS										RESOURCE INVENTORY	
ECOSYM UNIT		MW	13		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA	
					O2:01:08 NOV 22, 1984										TABLE 13 PAGE 2	
PLOT NUMBER					AVERAGE VALUE		3G P075	3G P092								
NUMBER OF SPECIES PER PLOT					36.0	37	35									
SPECIES					%P	MC	%C SV	%C SV								
36	RUBU PED				50.0	0.5		1 2								
37	RUBU PUB				50.0	0.5		1 2								
38	VACC VIT				50.0	0.5	1 2									
39	VIOL NEP				50.0	0.5	1 2									
G LAYER																
40	ELYM INN				100.0	1.0	1 2	1 2								
41	ORYZ EXI				50.0	1.0	2 2									
42	CALA STR				50.0	0.5		1 2								
43	CARE AQU				50.0	0.5	1 2									
D LAYER																
44	PLEU SCH				100.0	17.5	34 2	1 2								
45	HYLO SPL				100.0	1.0	1 2	1 2								
46	DICR SCO				50.0	2.0	4 2									
47	BRAC SAL				50.0	0.5	1 2									
48	EURH PUL				50.0	0.5		1 2								
49	PLAG DRU				50.0	0.5		1 2								
50	PTIL CRI				50.0	0.5	1 2									
L LAYER																
51	CLAD MIT				50.0	0.5	1 2									

PLOT NUMBER	3G	3G	3G
TOWNSHIP & RANGE	P075	P092	
MERIDIAN	W 6	W 6	
MAPSHEET	83L	83L	
	14	14	15
PHYSIOGRAPHIC SUBREGION			
GEOMORPHIC SYSTEM			
ECOSECTION			
ELEVATION(MASL)	697.5	715	680
SLOPE(%)	4.5	9	0
ASPECT(DEG)		160	
ENVIRONMENT/SOILS :			
ECOLOGICAL MOISTURE REGIME	SX	SM	
NUTRIENT REGIME	SM	SM	
OVERLYING MATERIAL	ER1	GF1	
EROSION/DEPOSITION			
SOIL SUBGROUP	PZ	F	
SOIL GREAT GROUP	GL	DYB	
SOIL DRAINAGE	R	W	
SOLUM THICKNESS(CM)	39.0	49	29
TYPE & DEPTH TO RESTRICT(CM)	7.0	6	8
THICKNESS LFH(CM)	0.0		
pH-LFH	0.0		
-A	5.0	5.0	5.0
-B	5.0	6.0	5.0
-C	7.0	8.0	6.0
TEXTURE-A/1	S	SL	SL
-B/2	SL	SL	SL
-C/3	SL	S	S
COARSE FRAGMENTS-B(%)	0.0		
SEEPAGE(*) & MOTTILING(CM)			
ROOTING DEPTH(CM)	0.0		
VEGETATION :			
ASSOCIATION			
STAND AGE(YR)	82.0	56	108
CANOPY HEIGHT(M)	25.5	21	30
MEAN ANNUAL INCREMENT	0.0		
STRATA COVERAGE(%) -A	32.5	30	35
-B	37.5	25	50
-C	30.0	35	25
-G	3.5	5	2
-D	23.5	45	2
-L	1.0	0	0
SURFACE SUBST(%) -DEAD WOOD	1.0	1	1
-BEDROCK	0.0	0	0
-STONES	0.0	0	0
-MIN. SOIL	0.0	0	0
-ORGANIC	99.0	99	99
-OPEN WATER	0.0	0	0
BIOMASS(KG/HA) -FORBS	0.0		
-GRAMINOIDS	0.0		
-BROWSE	0.0		

LEVEL ZONE ASSC TYPE  
ECOSYM UNIT BF 1

PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
NOV 22, 1984  
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PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	3G P026	3G P32A	3G P033	3G P034	3G P041	3G P038	3G P119	3G P040	3G P181	20 8522	20 8547	GP 4130	GP 4125
NUMBER OF SPECIES PER PLOT	37.9	34	42	36	40	30	29	29	29	31	35	36	55	67
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
A1 LAYER														
1 PINU CON	100.0 32.5	40 2 20 2	30 2 50 2	30 2 50 2	30 2 30 2	30 2 30 2	30 2 30 2	35 2 2 2	60 2 15 2	15 2 2 2	30 2 1 2	53 2 20 3	10 3	
2 POPU TRE	53.8 4.8		30 2											
3 PICE GLA	38.5 2.9				1 2									
4 POPU BAL	23.1 1.1				10 2									
5 PICE MAR	7.7 0.2													
6 ABIE BAL	7.7 0.1													
7 SALI SPP	7.7 0.1							1 2		1 2				
A2 LAYER														
PINU CON	69.2 2.3	2 2	1 2	1 2	2 2	2 2	1 2	10 2	2 2	5 2		2 2	5 3	5 3
PICE GLA	38.5 2.2				1 2							13 2	5 3	5 3
POPU TRE	23.1 0.6					1 2								
PICE MAR	15.4 1.1													
8 SALI GLA	15.4 0.3		3 2						1 2		13 2			
9 BETU OCC	15.4 0.2	1 2			1 2									
10 BETU PAP	7.7 0.2		2 2											
11 ABIE LAS	7.7 0.1													
12 ALNU CRI	7.7 0.1	1 2												
13 ALNU TEN	7.7 0.1													
POPU BAL	7.7 0.1													
14 SALI SCO	7.7 0.1						1 2							
SALI SPP	7.7 0.1													
E LAYER														
15 BRYO FUS	15.4 0.1												5 3	5 3
16 CETR PIN	15.4 0.1												5 3	5 3
17 HYPO PHY	15.4 0.1												5 3	5 3
18 PARM SUL	15.4 0.1												5 3	5 3
19 PLAT GLA	15.4 0.1												5 3	5 3
20 USNE ALP	15.4 0.1												5 3	5 3
21 USNE SOR	15.4 0.1												5 3	5 3
22 USNE SUB	15.4 0.1												5 3	5 3
23 BRYO CAP	7.7 0.0													
24 BRYO FRE	7.7 0.0													
25 BRYO FUR	7.7 0.0													
26 CETR CHL	7.7 0.0													
27 CETR HAL	7.7 0.0													
28 HYPO TUB	7.7 0.0												5 3	5 3
29 PARM ALE	7.7 0.0													
30 PARM AMB	7.7 0.0													
31 PARM HYP	7.7 0.0												5 3	5 3
32 RAMA THR	7.7 0.0												5 3	5 3
B1 LAYER														
ALNU CRI	38.5 1.0	1 2			5 2									
PICE GLA	38.5 0.4	1 2	1 2	2 2					1 2		1 2		5 3	
BETU OCC	30.8 0.5	2 2	3 2	1 2					1 2					
ABIE LAS	15.4 0.2			2 2							1 2			
SALI GLA	15.4 0.2			1 2				2 2	2 2					
SALI SPP	15.4 0.2		1 2											



## PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS

 RESOURCE INVENTORY  
 EDMONTON, ALBERTA  
 NOV 22, 1984  
 TABLE 14 PAGE 3

 LEVEL ZONE ASSC TYPE  
 ECOSYM UNIT BF 1

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	3G PO26	3G P32A	3G PO33	3G PO34	3G PO41	3G PO38	3G P119	3G PO40	20 P181	20 8522	20 8547	GP 4130	GP 4125
NUMBER OF SPECIES PER PLOT		%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
SPECIES	%P	MC												
63 VIOL REN	53.8	0.5	1 2	1 2	1 2	1 2	1 2			1 2				
64 SMIL RAC	46.2	1.2	1 2		1 2	2 2					5 2	5 3	2 3	
65 EQUI SYL	46.2	0.7			1 2	1 2					1 2	5 3	5 3	
66 ASTE CON	38.5	0.8			1 2					3 2				
67 STRE AMP	23.1	1.4									35	36	55	67
68 EQUI PRA	23.1	0.5	10 2							1 2				
69 ORTH SEC	15.4	0.5												
70 ACTA RUB	15.4	0.4												
71 DRYO CAR	15.4	0.2			1 2									
72 EQUI ARV	15.4	0.2									2 2	1 2		
73 GALI TRI	15.4	0.2	1 2							2 2				
74 MERT PAN	15.4	0.2												
75 RUBU PED	15.4	0.2												
76 ERIG SPP	7.7	0.8												
77 VACC CAE	7.7	0.3			4 2									
78 TIAR UNI	7.7	0.2												
79 VACC VIT	7.7	0.2												
80 VIOL ADU	7.7	0.2												
81 ASTE CIL	7.7	0.1								1 2				
82 DISP TRA	7.7	0.1	1 2											
83 EQUI SCI	7.7	0.1								1 2				
84 FRAG VIR	7.7	0.1												
85 GAUL HIS	7.7	0.1							1 2					
86 GOOD OBL	7.7	0.1												
87 HABA ORB	7.7	0.1							1 2					
88 OSMO DEP	7.7	0.1										1 2		
89 PYRO CHL	7.7	0.1				1 2								
90 DELP GLA	7.7	0.0												
91 HERA LAN	7.7	0.0												
G LAYER														
92 CALA STR	46.2	0.5	2 2	1 2	1 2		1 2				1 2	1 2		
93 ELYM INN	30.8	0.3				1 2								
94 CALA CAN	15.4	0.8											5 3	10 3
95 CALA SPP	7.7	0.1	1 2											
D LAYER														
96 PLEU SCH	100.0	16.2	2 2	40 2	5 2	8 2	4 2	13 2	2 2	50 2	6 2	31 2	3 10 3	
97 PTIL GRI	92.3	8.5	1 2	22 2	2 2	2 2	2 2	2 2		19 2	1 2	9 2	4 20 3	
98 HYLO SPL	69.2	5.3	2 2	2 2	1 2		1 2			1 2	6 2	28 2	3 10 3	
100 DICR BRE	15.4	0.2	2 2											
101 DICR POL	15.4	0.2												
102 DICR FUS	15.4	0.2												
103 POLY JUN	15.4	0.1			1 2		1 2				1 2			5 3
104 PTIL PUL	7.7	0.8												5 3
105 BRAC SAL	7.7	0.1								1 2				10 3
106 BRAC SPP	7.7	0.1												
107 CLAD MIT	7.7	0.1												
108 FLAG MED	7.7	0.1	1 2							1 2				

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
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PINUS CONTORTA/VIBURNUM EDULE/ARALIA NUDICAULIS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

LEVEL	ZONE	ASSC	TYPE	ECOSYM UNIT		BF		1		AVERAGE		3G		3G		3G		3G		3G		3G		3G		3G		20		20		GP		GP			
										VALUE		P026		P32A		P033		P034		P041		P038		P119		P040		P181		8522		8547		4130		4125	
PLOT NUMBER																																					
NUMBER OF SPECIES PER PLOT										37.9		34		42		36		40		30		29		29		29		31		35		36		55		67	
SPECIES										%P		MC		%C		SV		%C		SV		%C		SV		%C		SV		%C		SV		%C		SV	
109 PTIL CIL										7.7		0.1								1		2															
SALI SPP										7.7		0.1								1		2															
110 CERA PUR										7.7		0.0																									
111 POHL NUT										7.7		0.0																									
L LAYER																																					
112 CLAD CHL										15.4		0.1																									
113 CLAD CON										15.4		0.1																									
CLAD MIT										7.7		0.2																									
114 CLAD GRA										7.7		0.1																									
115 CLAD GEN										7.7		0.0																									
116 CLAD FIM										7.7		0.0																									
117 CLAD GON										7.7		0.0																									

## TITLE : PINUS CONTORTIA/VIBURNUM EDULE/ARALIA NUDICAULIS

PLOT NUMBER TOWNSHIP & RANGE MERIDIAN MAPSHEET	3G														20				GP			
	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G	3G
MEAN	65	64	5	64	5	64	5	64	5	64	5	64	5	64	5	64	5	64	5	64	5	64
W 6 W	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
PHYSIOGRAPHIC SUBREGION																						
GEOMORPHIC SYSTEM																						
ECOSECTION																						
ELEVATION(MASL)	965.8	880	935	930	945	1015	925	930	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
SLOPE(%)	6.2	7	4	0	10	3	17	0	5	6	3	2	14	10	350	350	350	350	350	350	350	350
ASPECT(DEG)		24	98																			
ENVIRONMENT/SOILS :																						
ECOLOGICAL MOISTURE REGIME																						
NUTRIENT REGIME																						
OVERLYING MATERIAL																						
UNDERLYING MATERIAL																						
EROSION/DEPOSITION																						
SOIL SUBGROUP																						
SOIL GREAT GROUP																						
SOIL DRAINAGE																						
SOLUM THICKNESS(CM)	37.6	29																				
TYPE & DEPTH TO RESTRICT(CM)																						
THICKNESS LFH(CM)	8.3	8																				
PH-LFH	5.0																					
-A	5.1	4.0																				
-B	5.7	5.0																				
-C	5.8	6.0																				
TEXTURE -A/1																						
-B/2																						
-C/3																						
COARSE FRAGMENTS-B(%)	15.2	15																				
SEEPAGE(+) & MOTTILING(CM)	50.0																					
ROOTING DEPTH(CM)																						
VEGETATION :																						
ASSOCIATION																						
STAND AGE(YR)	99.0		92	86	78	87	85	78	18	25	92	143	150	29								
CANOPY HEIGHT(M)	23.5	21	22	31	23	27	22	21	18	25	92	20	29									
MEAN ANNUAL INCREMENT	0.0																					
STRATA COVERAGE(%) -A	45.8	45	25	60	60	40	55	45	60	45	45	40	35									
-B	36.5	25	45	45	35	45	35	15	15	15	15	20	75	40	65							
-C	43.8	30	40	30	30	55	60	15	10	30	30	40	70	89	70							
-G	1.6	2	0	1	0	1	1	1	1	1	1	1	1	1	10							
-D	37.9	10	90	10	40	10	15	3	90	15	15	75	10	50								
-L	1.7	0	0	0	0	0	0	2	0	0	0	0	10	10								
SURFACE SUBST(%) -DEAD WOOD	7.2	10	3	2	1	10	2	10	20	8	10	2	5	10								
-BEDROCK	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
-STONES	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
-MIN. SOIL	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
-ORGANIC	92.8	90	97	97	99	90	98	90	80	92	98	98	95	90								
-OPEN WATER	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
BIOMASS(KG/HA) -FORBS	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
-GRAMINOIDS	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								
-BROWSE	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0								

LEVEL		ZONE	ASSC TYPE	POPULUS TREMULOIDES/VIBURNUM EDULE/ARALIA NUDICAULIS										RESOURCE INVENTORY		
ECOSYM UNIT		BF	2	PRESENCE (%P)			MEAN COVER (MC)			PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)			EDMONTON, ALBERTA NOV 22, 1984 O2:01:08 TABLE 15 PAGE 1			
PLOT NUMBER				AVERAGE VALUE	3G PO31	20 RG31	3B FO65	3G P169								
NUMBER OF SPECIES PER PLOT				36 3	33	35	47	30								
SPECIES				%P MC	%C SV	%C SV	%C SV	%C SV								
A1 LAYER																
1	POPU TRE			100.0 32.5	25 2	25 2	60 2	20 2								
2	POPU BAL			50.0 10.0	20 2	20 2										
3	PICE GLA			25.0 2.3		9 2										
A2 LAYER																
	POPU TRE			75.0 2.8	1 2		5 2	5 2								
	POPU BAL			25.0 1.3	5 2											
	PICE GLA			25.0 0.3		1 2										
4	SALT BEB			25.0 0.3					1 2							
E LAYER																
5	USNE GLA			25.0 0.8												
6	USNE SUB			25.0 0.5			3 2	2 2								
7	BRAC CAM			25.0 0.3	1 2											
B1 LAYER																
8	ALNU CRI			75.0 4.0	5 2	10 2	1 2									
	POPU BAL			50.0 1.0	2 2	2 2										
	POPU TRE			25.0 1.3		5 2										
	PICE GLA			25.0 0.8		3 2										
B2 LAYER																
9	VIBU EDU			100.0 9.3	20 2	4 2	10 2	3 2								
10	ROSA ACI			100.0 6.0	17 2	4 2	2 2	1 2								
	ALNU CRI			75.0 11.8	21 2		3 2	23 2								
11	SPIR BET			75.0 5.0	3 2	2 2	15 2									
12	AMEL ALN			75.0 1.8	4 2	2 2	2 2	1 2								
13	LONI INV			75.0 1.8		5 2	1 2	1 2								
14	LEDU GRO			50.0 2.5			2 2	8 2								
15	RUBU IDA			50.0 1.0	2 2	2 2										
	POPU TRE			50.0 0.8		2 2		1 2								
16	VACC MYR			25.0 5.0				20 2								
17	CORN STO			25.0 1.5	6 2											
	PICE GLA			25.0 0.8		3 2										
	POPU BAL			25.0 0.5		2 2										
18	RIBE LAC			25.0 0.5		2 2										
19	RUBU PAR			25.0 0.5	2 2											
20	SALT SCO			25.0 0.5			2 2									
21	SYMP ALB			25.0 0.5	2 2											
22	RIBE TRI			25.0 0.3		1 2										
C LAYER																
23	CORN CAN			100.0 6.0	3 2	3 2	2 2	16 2								
24	RUBU PUB			100.0 4.3	3 2	4 2	8 2	2 2								
25	EPIL ANG			100.0 4.0	1 2	1 2	5 2	9 2								
26	MITE NUD			100.0 2.0	1 2	4 2	2 2	1 2								
27	PETA PAL			100.0 2.0	1 2	1 2	4 2	2 2								
28	ARAL NUD			75.0 6.5	10 2	11 2	5 2									
29	ASTE CON			75.0 3.8		4 2	10 2	1 2								
30	LINN BOR			75.0 2.8	1 2		5 2	5 2								
31	PYRO ASA			75.0 1.3	1 2	3 2	1 2									
32	ARNI COR			75.0 0.8	1 2	1 2		1 2								

## POPULUS TREMULOIDES/VIBURNUM EDULE/ARALIA NUDICAULIS

RESOURCE INVENTORY  
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PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 15 PAGE 2

LEVEL	ZONE	ASSC	TYPE
ECOSYM UNIT	BF	2	
PLOT NUMBER			
NUMBER OF SPECIES PER PLOT			
SPECIES			
33	MERT	PAN	
34	VACC	CAE	
35	ACTA	RUB	
36	LATH	OCH	
37	EQUI	SYL	
38	GALI	TRI	
39	MAIA	CAN	
40	ASTE	CIL	
41	ORTH	SEC	
42	VIOL	REN	
43	VIOL	CAN	
44	CAST	MIN	
45	SMIL	RAC	
46	DELP	GLA	
47	DISP	TRA	
48	EQUI	ARV	
49	FRAG	VIR	
50	HEDY	SUL	
51	HERA	LAN	
52	OSMO	CHI	
53	THAL	VEN	
54	VALE	DIO	
55	VICI	AME	
G LAYER			
56	CALA	STR	
57	ELYM	INN	
58	CALA	CAN	
D LAYER			
59	PLAG	MED	
60	PLEU	SCH	
61	BRAC	SAL	
62	EURH	PUL	
63	HYLO	SPL	
64	PTIL	CRI	
65	DREP	UNC	
66	POLY	JUN	
L LAYER			
67	PELT	APH	
68	PELT	MAL	

PLOT NUMBER		3G		20		3B		3G	
TOWNSHIP & RANGE		P031 8631		FO65 P169					
MERIDIAN		66 7 63 4		59 5 6512					
MAPSHEET		W 6 W 6		W 6 W 6					
		83L 83L		83L 83L					
		10 7		2 12					
PHYSIOGRAPHIC SUBREGION									
GEOMORPHIC SYSTEM									
ECOSECTION									
ELEVATION(MASL)		1003.8		900 1000		1030 1085			
SLOPE(%)		13.8		8 1		37 9			
ASPECT(DEG)				172 215		82 20			
ENVIRONMENT/SOILS :									
ECOLOGICAL MOISTURE REGIME		HG		M		SHG		SM	
NUTRIENT REGIME		E				E		SM	
OVERLYING MATERIAL		Mv		M		MGU		GFV	
UNDERLYING MATERIAL		R						MU	
EROSION/DEPOSITION		GL				O		BR	
SOIL SUBGROUP		GL				HR		GL	
SOIL GREAT GROUP		I		W		I		W	
SOIL DRAINAGE									
SOLUM THICKNESS(CM)		25.0		21		15		39	
TYPE & DEPTH TO RESTRICT(CM)		4.7		7		2		5	
THICKNESS LFH(CM)		0.0							
-A		7.0		8.0		8.0		5.0	
-B		6.5		8.0				5.0	
-C		7.3		8.0		8.0		6.0	
TEXTURE-A/1		SIL						LS	
-B/2		SYCL						CL	
-C/3		CL				L		SICL	
COARSE FRAGMENTS-B(%)		35.0		*		*		35	
SEEPAGE(+) & MOTTILING(CM)		27.0						27	
ROOTING DEPTH(CM)									
VEGETATION :									
ASSOCIATION									
STAND AGE(YR)		0.0		19		33		23	
CANOPY HEIGHT(M)		24.0		0.0		55		65	
MEAN ANNUAL INCREMENT		0.0		50		55		25	
STRAITA COVERAGE(%) -A		48.8		80		30		55	
-B		55.0		80		55		30	
-C		48.8		30		60		45	
-G		8.5		1		25		2	
-D		10.0		1		4		10	
-L		0.3		0		0		1	
SURFACE SUBST(%) -DEAD WOOD		6.0		2		10		7	
-BEDROCK		0.0		0		0		0	
-STONES		0.0		0		0		0	
-MIN. SOIL		0.0		0		0		0	
-ORGANIC		94.0		98		90		93	
-OPEN WATER		0.0		0		0		0	
BIOMASS(KG/HA) - FORBS		0.0							
-GRAMINOIDS		0.0							
-BROWSE		0.0							

LEVEL		ZONE	ASSC	TYPE	PICEA GLAUCA/VIBURNUM EDULE/RUBUS PUBESCENS										RESOURCE INVENTORY		
ECOSYM UNIT		BF	3		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA		
					02:01:08 NOV 22, 1984										TABLE 16 PAGE 1		
PLOT NUMBER		AVERAGE VALUE	3G P104	3G P142	3G P217	20 8645	GP 4120	GP P097	GP 4123								
NUMBER OF SPECIES PER PLOT		39.9	35	28	19	36	62	35	64								
SPECIES		%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV								
A1 LAYER																	
1	PICE GLA	100.0	30.6	40	2	40	2	45	2	33	2	20	3	1	2	35	3
2	POPU TRE	57.1	3.0					2	2	4	2			10	2	5	3
3	PINU CON	28.6	4.6	2	2							20	3	30	2		
4	ABIE LAS	28.6	3.0	1	2												
5	POPU BAL	28.6	1.4					2	2	8	2						
A2 LAYER																	
6	PICE GLA	71.4	3.2			10	2	5	2	2	2	5	3			.5	3
	BETU PAP	42.9	0.6	2	2	1	2							1	2		
	ABIE LAS	28.6	1.1	3	2							5	3				
	POPU BAL	14.3	0.3							2	2						
7	ALNU CRI	14.3	0.1							1	2						
	PINU CON	14.3	0.1													.5	3
	POPU TRE	14.3	0.1							1	2						
E LAYER																	
8	CETR PIN	28.6	0.1													.5	3
9	HYPH PHY	28.6	0.1													.5	3
10	PARM SUL	28.6	0.1													.5	3
11	USNE ALP	28.6	0.1													.5	3
12	USNE SUB	28.6	0.1													.5	3
13	BRYO FRE	14.3	0.1													.5	3
14	BRYO FUS	14.3	0.1													.5	3
15	CETR HAL	14.3	0.1													.5	3
16	RAMA FAS	14.3	0.1													.5	3
17	USNE SOR	14.3	0.1													.5	3
B1 LAYER																	
	ALNU CRI	42.9	1.0	1	2					5	2					1	2
	POPU TRE	28.6	0.4							2	2					1	2
	ABIE LAS	28.6	0.2	1	2							.5	3				
	BETU PAP	28.6	0.2											1	2		
	PICE GLA	28.6	0.2							1	2	.5	3			.5	3
18	ALNU TEN	14.3	0.7			5	2										
19	SALI BEB	14.3	0.3											2	2		
20	BETU OCC	14.3	0.1	1	2												
21	PICE MAR	14.3	0.1											1	2		
B2 LAYER																	
22	VIBU EDU	100.0	8.7	5	2	3	2	5	2	20	2	10	4	13	2	5	3
23	ROSA ACI	100.0	3.6	2	2	1	2	1	2	4	2	10	4	4	2	3	3
24	LONI INV	85.7	3.6	5	2	2	2	1	2	4	2	5	4			8	3
25	SPIR BET	42.9	1.9	1	2									4	2	8	3
26	OPLO HOR	42.9	1.5	5	2							.5	3			5	3
27	SORB SCO	42.9	0.5	1	2							.5	3			2	3
	ALNU CRI	28.6	5.0									33	2			2	2
28	CORN STO	28.6	2.9							15	2	5	3				
	ABIE LAS	28.6	2.6	18	2							5	3			8	3
29	AMEL ALN	28.6	2.6									10	3				
30	RUBU PAR	28.6	1.4									5	3			5	3
31	RIBE LAC	28.6	0.7	1	2					4	2						

LEVEL		ZONE		ASSC TYPE		PICEA GLAUCUA/VIBURNUM EDULE/RUBUS PUBESCENS										RESOURCE INVENTORY			
ECOSYM UNIT		BF		3		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 16 PAGE 2										EDMONTON, ALBERTA			
PLOT NUMBER		AVERAGE		3G		3G		3G		20		GP		GP					
NUMBER OF SPECIES PER PLOT		VALUE		P104		P142		P217		BG45		4120		P097					
SPECIES		%P MC		%C SV %C SV %C SV %C SV		%C SV %C SV %C SV %C SV		%C SV %C SV %C SV %C SV		%C SV %C SV %C SV %C SV		%C SV %C SV %C SV %C SV		%C SV %C SV %C SV %C SV					
32	BETU GLA	14.3	0.7									5	3						
33	GAUL HIS	14.3	0.7									5	3						
34	RIBE HIR	14.3	0.7									5	3						
35	RIBE OXY	14.3	0.7													5	3		
36	RIBE TRI	14.3	0.7													5	3		
37	RUBU STR	14.3	0.7									5	3						
38	SYMP ALB	14.3	0.7							5	2								
39	ALNU TEN	14.3	0.3			2	2			2	2								
40	BETU OCC	14.3	0.1	1	2														
41	LONI DIO	14.3	0.1							1	2								
42	PICE GLA	14.3	0.1									5	3						
43	POPU BAL	14.3	0.1																
44	POPU TRE	14.3	0.1																
45	SALI BEB	14.3	0.1			1	2												
46	SALI SCO	14.3	0.1																
47	VACC MEM	14.3	0.1	1	2														
48	CORN CAN	100.0	7.4	5	2	5	2	11	2	6	2	5	4	12	2	8	3		
49	RUBU PUB	100.0	3.7	2	2	2	2	4	2	6	2	5	3	2	2	5	3		
50	PETA PAL	100.0	3.3	1	2	3	2	1	2	2	2	5	4	1	2	10	3		
51	MITE NUD	100.0	1.8	2	2	4	2	1	2	3	2	1	3	1	2	5	3		
52	LYNN BOR	85.7	5.3	2	2	2	2	14	2	18	2	10	4	8	2	15	3		
53	ARNAL NUD	71.4	9.0	6	2	2	2			4	2	5	3	2	2	5	3		
54	PYRO ASA	71.4	1.8	1	2					2	2	15	4			5	3		
55	MERT PAN	57.1	3.9	1	2	1	2	1	2	2	2	5	4			5	3		
56	VIOL REN	57.1	1.1	1	2														
57	MAIA CAN	57.1	0.9	1	2							5	3	2	2	3	3		
58	GYMN DRY	42.9	1.1	5	2							5	2			2	3		
59	DELP GLA	42.9	0.4							1	2	1	4			5	3		
60	GALT BOR	42.9	0.4			1	2					10	3			5	3		
61	SMIL RAC	28.6	2.4													7	3		
62	EPIL ANG	28.6	1.8													5	3		
63	EQUI SYL	28.6	0.9	1	2											5	3		
64	LATH OCH	28.6	0.9							3	2					3	3		
65	ARNI COR	28.6	0.4									1	3	2	2				
66	RUBU PED	28.6	0.4									1	4			2	3		
67	ASTE CIL	28.6	0.3	1	2														
68	EQUI ARV	28.6	0.3	1	2					1	2								
69	EQUI PRA	28.6	0.3	1	2							1	2						
70	FRAG VIR	28.6	0.3																
71	GALT TRI	28.6	0.3					1	2										
72	STRE AMP	14.3	1.4							1	2					10	3		
73	ACTA RUB	14.3	1.0													7	3		
74	THAL VEN	14.3	0.7									5	3						
75	ASTE CON	14.3	0.3							2	2								
76	HERA LAN	14.3	0.3													2	3		
77	VACC VIT	14.3	0.3													2	2		

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PICEA GLAUCA/VIBURNUM EDULE/RUBUS PUBESCENS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

LEVEL	ZONE	ASSC	TYPE																
ECOSYM UNIT	BF	3																	
PLOT NUMBER	AVERAGE		VALUE	3G		3G		3G		20		3G		GP		GP			
	P104	P142		P217	P097	B645	4120	P097	4123										
NUMBER OF SPECIES PER PLOT				35		28		19		36		62		35		64			
SPECIES				%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV			
73 VIOL CAN	14.3	0.3								2	2								
74 DISP TRA	14.3	0.1								1	2								
75 EQUI SCI	14.3	0.1													1	2			
76 GEOC LIV	14.3	0.1																	
77 LYCO ANN	14.3	0.1																	
78 MONE UNI	14.3	0.1																	
79 OSMD DEP	14.3	0.1																	
80 VACC CAE	14.3	0.1																	
G LAYER																			
81 CALA CAN	28.6	0.5																	
82 CALA STR	28.6	0.4																	
83 ELYM INN	14.3	0.7																	
D LAYER																			
84 PTIL CRI	85.7	11.9																	
85 PLEU SCH	85.7	9.0																	
86 HYLO SPL	71.4	27.9																	
87 PLAG DRU	28.6	1.1																	
88 BRAC SAL	28.6	0.2																	
89 JAME AUT	28.6	0.1																	
90 PTIL PUL	28.6	0.1																	
91 BRAC STA	14.3	1.1																	
92 AULA PAL	14.3	0.1																	
93 DICR FLA	14.3	0.1																	
94 DICR FRA	14.3	0.1																	
95 DICR FUS	14.3	0.1																	
96 EURH PUL	14.3	0.1																	
97 LEPI REP	14.3	0.1																	
98 LEPT PYR	14.3	0.1																	
99 PLAG CUS	14.3	0.1																	
100 PLAG MED	14.3	0.1																	
101 POHL NUT	14.3	0.1																	
102 PYLA POL	14.3	0.1																	
103 RHYT TRI	14.3	0.1																	
104 TETR ANG	14.3	0.1																	
105 TETR MNI	14.3	0.1																	
L LAYER																			
106 CLAD CHL	28.6	0.1																	
107 CLAD CON	28.6	0.1																	
108 NEPH BEL	28.6	0.1																	
109 CLAD GOI	14.3	0.1																	
110 HYPD TUB	14.3	0.1																	
111 LOBA PUL	14.3	0.1																	
112 NEPH PAR	14.3	0.1																	
113 PELT POL	14.3	0.1																	
114 PHYS ADS	14.3	0.1																	
115 USNE CAV	14.3	0.1																	
USNE SOR	14.3	0.1																	



LEVEL	ZONE	ASSC TYPE
ECOSYM UNIT	BF	4

PLOT NUMBER	AVERAGE VALUE	3G P179	3G P117	3G P118	3G P153	GP 4128	3B F064
NUMBER OF SPECIES PER PLOT	29.5	23	30	19	29	39	37
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
A1 LAYER	100.0 35.0	20 2	5 2	60 2	40 2	35 3	50 2
1 PINU CON	16.7 0.2				1 2		
2 PICE MAR							
A2 LAYER							
PINU CON	100.0 5.9	5 2	15 2	5 2	5 2	5 3	5 2
PICE MAR	50.0 2.5	5 2	5 2	5 2			
3 SALI BEB	16.7 0.2			1 2			
4 SALI SPP	16.7 0.2				1 2		
E LAYER							
5 CETR HAL	33.3 0.9					5 3	5 2
6 CETR PIN	33.3 0.9					5 3	5 2
7 HYPO PHY	33.3 0.9					5 3	5 2
8 PARM AMB	33.3 0.9					5 3	5 2
9 PARM HYP	33.3 0.9					5 3	5 2
10 USNE SOR	33.3 0.9					5 3	5 2
11 BRYO FUS	33.3 0.4					5 3	2 2
12 BRYO FRE	16.7 0.5					5 3	3 2
13 PLAT GLA	16.7 0.1					5 3	
14 USNE SUB	16.7 0.1					5 3	
B1 LAYER							
15 ALNU CRI	16.7 0.8				5 2		
16 SALI SCO	16.7 0.3				2 2		1 2
17 ABIE LAS	16.7 0.2			1 2			
PICE MAR	16.7 0.2						
B2 LAYER							
18 LEDU GRO	83.3 15.0	4 2	11 2		30 2	10 3	35 2
19 VACC MYR	83.3 3.5	10 2	1 2		1 2	5 3	4 2
20 ROSA ACI	66.7 1.5	1 2			1 2	5 3	2 2
PICE MAR	33.3 0.8		3 2	2 2			
21 SPIR BET	33.3 0.5	1 2			2 2		
22 BETU GLA	16.7 2.2		13 2				
SALI BEB	16.7 1.2		7 2				
23 SHEP CAN	16.7 1.0	6 2					
24 VACC MEM	16.7 0.5				3 2		1 2
ABIE LAS	16.7 0.2						1 2
ALNU CRI	16.7 0.2						
25 LONI INV	16.7 0.2				1 2		1 2
26 MENZ FER	16.7 0.2						
27 PICE GLA	16.7 0.2	1 2					
PINU CON	16.7 0.2		1 2				
28 VACC CAE	16.7 0.2				1 2		
29 VACC VIT	16.7 0.2						
30 POFU TRE	16.7 0.1		1 2				
C LAYER							
31 CORN CAN	83.3 6.0	1 2	2 2		8 2	5 3	20 2
32 LINN BOR	83.3 4.5	2 2		2 2	3 2	10 3	10 2
VACC VIT	83.3 4.5	3 2	5 2		1 2	10 3	8 2
33 ORTH SEC	66.7 0.8			1 2	2 2	5 3	1 2



PLOT NUMBER	AVERAGE VALUE	3G P179	3G P117	3G P118	3G P153	GP 4128	3B F064
NUMBER OF SPECIES PER PLOT	%P MC	%C SV %C SV	%C SV %C SV	%C SV %C SV	%C SV %C SV	%C SV %C SV	%C SV
77 CLAD CQC	16.7 0.1					.5 3	
78 CLAD COI	16.7 0.1					.5 3	
79 CLAD CON	16.7 0.1					.5 3	
80 CLAD PLE	16.7 0.1					.5 3	



PLOT NUMBER	AVERAGE VALUE	20	20	3G	3G	3G	3G	GP	3G	3G	3G	3G	3G	20	20	20	20
		8639	5752	P180	P126	P127	4124		P141	P048	4588	P095	P139	8641	8518	8517	8543
NUMBER OF SPECIES PER PLOT																	
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C
A1 LAYER																	
1 PINU CON	93.8	18.2	25	2	15	2	25	2	35	2	40	2	55	2	2	2	2
2 PICE MAR	62.5	15.3															
3 POPU TRE	25.0	2.2	2	2		7	2										
4 PICE GLA	18.8	1.0					5	2									
A2 LAYER																	
PICE MAR	81.3	9.4	10	20	2	5	2	15	2	20	2			5	2	3	2
PINU CON	56.3	2.9		5	2	5	2	10	2	5	3	1	2	5	2	15	2
PICE GLA	25.0	0.3				1	2			2	2						
POPU TRE	12.5	0.4															
5 ABIE BAL	6.3	0.1															
6 POPU BAL	6.3	0.1															
7 SALI SPP	6.3	0.1							1	2							
E LAYER																	
8 BRYO FUS	6.3	0.0															
9 HYPO PHY	6.3	0.0															
10 PARM ALE	6.3	0.0															
11 PARM HYP	6.3	0.0															
12 PARM SUL	6.3	0.0															
13 USNE ALP	6.3	0.0															
14 USNE SCA	6.3	0.0															
B1 LAYER																	
PICE MAR	56.3	2.3	1	2	5	2		2	2	3							
15 ALNU GRI	25.0	1.6	1	2												4	2
16 ABIE LAS	12.5	0.2															
PINU CON	12.5	0.1		1	2										3	2	
PICE GLA	6.3	0.6															
POPU TRE	6.3	0.1							1	2							
17 SALI SCO	6.3	0.1							1	2							
SALI SPP	6.3	0.1															
B2 LAYER																	
18 ROSA ACI	87.5	3.1	5	2	5	2	3	2									
19 LEDU GRO	81.3	20.6	38	2	40	2	10	2	1	2	2	2	5	2	7	2	5
20 VACC MYR	75.0	4.4	4	2	6	2			3	8	2	30	2	50	2	5	2
21 SPIR BET	43.8	1.3	3	2					5	3	11	2	15	2	6	2	1
PICE MAR	43.8	1.1	1	2	4	2			5	3	1	2	3	2	5	2	3
22 VIBU EDU	37.5	1.7															
23 LONI INV	31.3	1.6							2	2	3	2	3	2	3	2	1
ALNU CRI	25.0	3.5							10	2	40	2	5	2		4	2
24 VACC MEM	25.0	1.8	2	2					22	2			1	2		2	2
ABIE LAS	18.8	0.5							5	3	1	2					
SALI SCO	18.8	0.2					1	2									
25 SORB SCO	12.5	0.7															
PICE GLA	12.5	0.4							5	3							
POPU TRE	12.5	0.1															
26 SHIP CAN	6.3	0.5															
ABIE BAL	6.3	0.4															
27 SALI BEB	6.3	0.4															
																	1
																	2



LEVEL | ZONE | ASSC | TYPE

ECOSYM UNIT | BF

5

## PINUS CONTORTA - PICEA MARIANA / LEDUM GROENLANDICUM / PLEUROZTIUM SCHR

RESOURCE INVENTORY

FTMONTION, ALBERTA

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PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	20 8639	20 5752	3G P180	3G P126	3G P127	GP 4124	3G P141	3G P048	20 4588	3G P095	3G P139	20 8641	20 8518	20 8517	20 8543
NUMBER OF SPECIES PER PLOT	26.8	20	25	25	19	20	50	27	38	36	29	29	22	20	22	28
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV
71 PTIL CRI	100.0	18.6	45	2	1	2	17	2	3	2	3	2	2	2	2	2
72 DICR POL	50.0	0.6														
73 DICR SCO	18.8	0.3														
74 POLY JUN	12.5	0.1														
75 BARB LYC	6.3	0.1														
76 BRAC HYL	6.3	0.1														
77 BRAC SAL	6.3	0.1														
78 DICR FLA	6.3	0.1														
79 DICR FUS	6.3	0.1														
80 POHL NUT	6.3	0.1														
81 POLY COM	6.3	0.1														
82 POLY PTL	6.3	0.1														
83 PTIL CIL	6.3	0.1														
84 PTIL PUL	6.3	0.0														
L LAYER																
PELT APH	68.8	1.4														
85 CLAD MIT	37.5	0.4														
86 PELT MAL	31.3	0.5														
87 CLAD GRA	25.0	0.2														
88 CLAD COR	18.8	0.2														
89 STER TOM	6.3	0.1														
90 CLAD GEN	6.3	0.0														
91 CLAD CHL	6.3	0.0														
92 CLAD COC	6.3	0.0														
93 CLAD CON	6.3	0.0														
94 CLAD PHY	6.3	0.0														

LEVEL	ZONE	ASSC	TYPE	PINUS CONTORTA-PICEA MARIANA/LEDUM GROENLANDICUM/PLEUROZIVM SCHR				RESOURCE INVENTORY			
ECOSYM UNIT	BF		5	PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)				EDMONTON, ALBERTA			
				NOV 22, 1984				TABLE 18 PAGE 4			
PLOT NUMBER				20	8551						
NUMBER OF SPECIES PER PLOT				18							
SPECIES				%C	SV						
A1 LAYER											
1 PINU CON											
2 PICE MAR				53	2						
3 POPU TRE											
4 PICE GLA											
A2 LAYER											
PICE MAR				7	2						
PINU CON											
PICE GLA											
POPU TRE											
5 ABIE BAL											
6 POPU BAL											
7 SALI SPP											
E LAYER											
8 BRYO FUS											
9 HYPO PHY											
10 PARM ALE											
11 PARM HYP											
12 PARM SUL											
13 USNE ALP											
14 USNE SCA											
B1 LAYER											
PICE MAR				1	2						
15 ALNU CRI											
16 ABIE LAS											
PINU CON											
PICE GLA											
POPU TRE											
17 SALI SCO											
SALI SPP											
B2 LAYER											
18 ROSA ACI				2	2						
19 LEDU GRO				25	2						
20 VACC MYR				2	2						
21 SPIR BET											
PICE MAR				1	2						
22 VIBU EDU											
23 LONI INV											
ALNU CRI											
24 VACC MEM											
ABIE LAS											
SALI SCO											
25 SORB SCO											
PICE GLA											
POPU TRE											
26 SHEP CAN											
ABIE BAL											
27 SALI BEB											

LEVEL		ZONE	ASSC	TYPE	PINUS CONTORTA-PICEA MARIANA/LEDUM GROENLANDICUM/PLEUROZIVM SCHR		RESOURCE INVENTORY	
ECOSYM UNIT		BF	5		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VICOR (V)		EDMONTON, ALBERTA	
					02-01-08		NOV 22, 1984	
					TABLE 18		PAGE 5	
PLOT NUMBER		20			8551			
NUMBER OF SPECIES PER PLOT		18						
SPECIES		%C SV						
28 RIBE OXY								
PINU CON								
29 SALI GLA								
30 AMEL ALN								
31 OPLO HOR								
POPU BAL								
C LAYER								
32 CORN CAN		2 2						
33 LINN BOR								
34 VACC VIT		5 2						
35 PETA PAL								
36 EPIL ANG								
37 PYRO ASA								
38 RUBU PUB								
39 VACC CAF								
40 EQUI SYL		1 2						
41 MAIA CAN								
42 ARNI COR								
43 LATH OCH								
44 MERT PAN								
45 GAUL HIS		3 2						
46 FRAG VIR								
47 MITE NUD								
48 VIOL REN								
49 GYMN DRY								
50 RUBU PED								
51 ASTE CON								
52 EQUI PRA								
53 EQUI SCI								
54 GALI BOR								
55 LYCO ANN								
56 OXYC MIC								
57 GEOC LIV								
58 SMIL RAC								
59 STRE AMP								
60 ASTE CIL								
61 CAST MIN								
62 ORTH SEC								
63 HERA LAN								
G LAYER								
64 ELYM INN								
65 CALA STR								
66 CALA CAN								
67 CARE CAP								
68 PELT APH								
D LAYER								
69 PLEU SCH		36 2						
70 HYLO SPL		40 2						

LEVEL	ZONE	ASSC	TYPE	RESOURCE INVENTORY			
ECOSYM UNIT	BF	5		PINUS CONTORTA-PICEA MARIANA/LEDUM GROENLANDICUM/PLEUROZIVM SCHR	EDMONTON, ALBERTA	02:01:08	NOV 22, 1984
				PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)	TABLE 18	PAGE 6	
PLOT NUMBER				20	8551		
NUMBER OF SPECIES PER PLOT				18			
SPECIES				%C	SV		
71 PTIL CRI				19	2		
72 DICR POL				1	2		
73 DICR SCO							
74 POLY JUN							
75 BARB LYC							
76 BRAC HYL							
77 BRAC SAL							
78 DICR FLA							
79 DICR FUS							
80 POHL NUT							
81 POLY COM							
82 POLY PIL							
83 PTIL CIL							
84 PTIL PUL							
L LAYER							
PELT APH				1	2		
85 CLAD MIT				1	2		
86 PELT MAL				2	2		
87 CLAD GRA							
88 CLAD COR							
89 STER TOM							
90 CLAD CEN							
91 CLAD CHL							
92 CLAD COC							
93 CLAD CON							
94 CLAD PHY							



PICEA MARIANA/HYLOCOMIUM SPLENDENS				RESOURCE INVENTORY							
LEVEL	ZONE	ASSC	TYPE	O2:01:08 NOV 22, 1984 EDMONTON, ALBERTA TABLE 19 PAGE 1							
ECOSYM UNIT BF 6				PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)							
PLOT NUMBER				AVERAGE VALUE							
NUMBER OF SPECIES PER PLOT				20 20 20 3G							
SPECIES				8551 5754 P042							
A1 LAYER											
1	PICE MAR			100.0	44.3	53	2	35	2	45	2
A2 LAYER											
	PICE MAR			100.0	5.7	7	2	5	2	5	2
2	PINU CON			33.3	0.3					1	2
B1 LAYER											
	PICE MAR			66.7	1.0	1	2	2	2		
B2 LAYER											
3	LEDU GRO			100.0	27.0	25	2	55	2	1	2
4	LONI INV			66.7	2.7			5	2	3	2
	PICE MAR			66.7	1.3	1	2	3	2		
5	ROSA ACI			66.7	1.0	2	2			1	2
6	SALI MYR			33.3	0.7			2	2		
7	VACC MYR			33.3	0.7	2	2			1	2
8	RIBE AME			33.3	0.3					1	2
9	SALI GLA			33.3	0.3						
C LAYER											
10	EQUI SYL			66.7	3.0	1	2	8	2		
11	PETA PAL			66.7	1.7			4	2	1	2
12	CORN CAN			66.7	1.3	2	2			2	2
13	EQUI SCI			66.7	1.0			1	2	2	2
14	MITE NUD			66.7	1.0			1	2	2	2
15	VACC VIT			33.3	1.7	5	2				
16	EQUI ARV			33.3	1.0					3	2
17	GAUL HIS			33.3	1.0	3	2				
18	RUBU PUB			33.3	1.0					3	2
19	OXYC MIC			33.3	0.7			2	2		
20	SMIL TRI			33.3	0.7			2	2		
21	ACHI MIL			33.3	0.3			1	2		
22	ASTE CIL			33.3	0.3			1	2		
23	ASTE CON			33.3	0.3					1	2
24	DTSP TRA			33.3	0.3					1	2
25	GALI BOR			33.3	0.3			1	2		
26	GALI TRI			33.3	0.3					1	2
27	GEUM RIV			33.3	0.3					1	2
28	LINN BOR			33.3	0.3					1	2
29	MERT PAN			33.3	0.3					1	2
G LAYER											
30	CARE VAG			66.7	4.7			10	2	4	2
31	CARE DIS			33.3	5.0					15	2
32	CARE PAU			33.3	0.3					1	2
D LAYER											
33	HYLO SPL			100.0	35.7	40	2	45	2	22	2
34	PLEU SCH			100.0	20.0	36	2	18	2	6	2
35	PTIL CRI			100.0	12.0	19	2	14	2	3	2
36	AULA PAL			66.7	5.0			14	2	1	2
37	SPHA WAR			66.7	0.7			1	2	1	2
38	RHIZ PSE			33.3	1.7					5	2

PICEA MARIANA/HYLOCOMIUM SPLENDENS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE		20		20		3G	
	VALUE		8551		5754		P042	
NUMBER OF SPECIES PER PLOT	26.0		18		27		33	
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV
39 TOME NIT	33.3	0.7					2	2
40 DICR POL	33.3	0.3	1	2				
41 DICR SCO	33.3	0.3			1	2		
42 POHL NUT	33.3	0.3					1	2
43 POLY JUN	33.3	0.3			1	2		
L LAYER								
44 CLAD MIT	100.0	1.0	1	2	1	2	1	2
45 PELT APH	66.7	1.0	1	2	2	2		
46 PELT MAL	66.7	1.0	2	2	1	2		
47 CLAD ECM	33.3	0.3					1	2

20	20	3G
8551	5754	PO42
63 5	63 8	65 7
W 6	W 6	W 6
83L	83L	83L
7	6	10
MEAN		
PHYSIOGRAPHIC SUBREGION		
GEOMORPHIC SYSTEM		
ECOSECTION		
ELEVATION(MASL)	988.3	1010
SLOPE(%)	0.3	1
ASPECT(DEG)	260	
ENVIRONMENT/SOILS		
ECOLOGICAL MOISTURE REGIME	M	HG
NUTRIENT REGIME	MQ	L
OVERLYING MATERIAL		
UNDERLYING MATERIAL		
EROSION/DEPOSITION		
SOIL SUBGROUP		
SOIL GREAT GROUP		
SOIL DRAINAGE	W	P
SOLUM THICKNESS(CM)	0.0	
TYPE & DEPTH TO RESTRICT(CM)		
THICKNESS LFH(CM)	0.0	
pH-LFH	0.0	
-A	0.0	
-B	0.0	
-C	0.0	
TEXTURE-A/1		m
-B/2		
-C/3		
COARSE FRAGMENTS-B(%)	0.0	
SEEPAGE(*) & MOTTILING(CM)		
ROOTING DEPTH(CM)	0.0	
VEGETATION :		
ASSOCIATION		
STAND AGE(YR)	79.5	73
CANOPY HEIGHT(M)	11.0	11
MEAN ANNUAL INCREMENT	0.0	
STRATA COVERAGE(%) -A	50.0	40
-B	30.0	60
-C	21.7	20
-G	9.0	0
-D	72.3	86
-L	3.0	4
SURFACE SUBST(%) -DEAD WOOD	2.3	5
-BEDROCK	0.0	0
-STONES	0.0	0
-MIN.SOIL	0.0	0
-ORGANIC	96.3	95
-OPEN WATER	1.3	0
-FORBS	0.0	1
-GRAMINOIDS	0.0	3
-BROWSE	0.0	

LÉVEL | ZONE | ASSC | TYPE  
ECOSYM UNIT | BF | 7 |

LARIX LARICINA-PICEA MARIANA/BETULA GLANDULOSA/SPHAGNUM SPP

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
02:01:08 NOV 22, 1984  
TABLE 20 PAGE 1

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	3G PO61	20 5755
NUMBER OF SPECIES PER PLOT	23 5	19	28
SPECIES	%P	MC	%C SV
A1 LAYER			
1 LARI LAR	100.0 3.0	1 2	5 2
A2 LAYER			
LARI LAR	50.0 1.0		2 2
B1 LAYER			
LARI LAR	100.0 2.0	1 2	3 2
B2 LAYER			
2 BETU GLA	100.0 40.0	25 2	55 2
LARI LAR	100.0 15.0	22 2	8 2
3 SALI CAN	100.0 2.5	3 2	2 2
4 LEDU GRD	50.0 0.5	1 2	
5 SALI MYR	50.0 0.5	1 2	
C LAYER			
6 SMIL TRI	100.0 6.0	4 2	8 2
7 OXYC MIC	100.0 2.5	1 2	4 2
8 EQUI ARV	50.0 0.5	1 2	
9 EQUI SCI	50.0 0.5		1 2
10 GALI BOR	50.0 0.5		1 2
11 GALI LAB	50.0 0.5	1 2	
12 MITE NUD	50.0 0.5		1 2
13 PEDI LAB	50.0 0.5	1 2	
14 POLY VIV	50.0 0.5		1 2
15 STEL LOG	50.0 0.5		1 2
16 STEL LON	50.0 0.5	1 2	
17 VACC VIT	50.0 0.5		1 2
G LAYER			
18 CARE GYN	100.0 3.0	2 2	4 2
19 CARE AQU	50.0 5.0		10 2
20 CARE DIA	50.0 1.5	3 2	
21 CALA CAN	50.0 0.5		1 2
D LAYER			
22 AULA PAL	100.0 9.0	4 2	14 2
23 TOME NIT	100.0 1.5	1 2	2 2
24 SPHA ANG	50.0 47.5	95 2	
25 SPHA WAR	50.0 26.0		52 2
26 DICR POL	50.0 2.0		4 2
27 HYPN PRA	50.0 2.0		4 2
28 POHL NUT	50.0 1.0		2 2
29 POLY JUN	50.0 1.0		2 2
30 CAMP STE	50.0 0.5	1 2	1 2
31 PALU SQU	50.0 0.5		1 2
32 PLAG ELL	50.0 0.5		1 2
33 POLY STR	50.0 0.5	1 2	
L LAYER			
34 CLAD CHL	50.0 1.0		2 2

	MEAN	3G	20
PLOT NUMBER	PO61	5755	
TOWNSHIP & RANGE	64 8 63 8	W 6 W 6	
MERIDIAN			
MAPSHEET	83L	83L	6
PHYSIOGRAPHIC SUBREGION		11	
GEOMORPHIC SYSTEM			
ECOSECTION			
ELEVATION(MASL)	1025.0	1065	985
SLOPE(%)	0.0	0	0
ASPECT(DEG)			
ENVIRONMENT/SOILS :			
-----			
ECOLOGICAL MOISTURE REGIME		HD	HD
NUTRIENT REGIME		PM	
OVERLYING MATERIAL		No	
UNDERLYING MATERIAL			
EROSION/DEPOSITION			
SOIL SUBGROUP		HY	
SOIL GREAT GROUP		M	
SOIL DRAINAGE		VP	VP
SOLUM THICKNESS(CM)	0.0		
TYPE & DEPTH TO RESTRICT(CM)			
THICKNESS LFH(CM)	0.0		
PH-LFH	0.0		
-A	0.0		
-B	8.0	8.0	
-C			
TEXTURE A/1			
-B/2			
-C/3			
COARSE FRAGMENTS-B(%)	0.0		
SEEPAGE(+) & MOTTILING(CM)		*	
ROOTING DEPTH(CM)	0.0		
VEGETATION :			
-----			
ASSOCIATION			
STAND AGE(YR)	107.0		107
CANOPY HEIGHT(M)	11.0	11	
MEAN ANNUAL INCREMENT	0.0		
STRATA COVERAGE(%) -A	5.5	1	10
-B	60.0	50	70
-C	15.0	10	20
-G	12.5	5	20
-D	86.0	99	73
-L	1.0	0	2
SURFACE SUBST(%) -DEAD WOOD	0.5	0	1
-BEDROCK	0.0	0	0
-STONES	0.0	0	0
-MIN. SOIL	0.0	0	0
-ORGANIC	98.0	99	97
-OPEN WATER	1.0	1	1
BIOMASS(KG/HA) -FORBS	0.0		
-GRAMINOIDS	0.0		
-BROWSE	0.0		

LEVEL		ZONE	ASSC	TYPE	PICEA GLAUCA/EQUISETUM SPP										PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)				RESOURCE INVENTORY											
ECOSYM UNIT		BF	8																FIMONTON, ALBERTA											
																			O2:01:08 NOV 22, 1984											
																			TABLE 21 PAGE 1											
PLOT NUMBER	NUMBER OF SPECIES PER PLOT				AVERAGE VALUE	3G P32B	3G P176	3G P156	3G 169A	20 8644	3G P013	20 7497																		
SPECIES					%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV																		
A1 LAYER																														
1 PICE GLA	100.0	27.9	45	2	30	2	30	2	15	2	30	2	15	2	30	2	30	2												
2 POPU BAL	42.9	2.4			2	2							5	2	10	2														
3 PICE MAR	28.6	2.1					5	2	10	2																				
4 ABIE LAS	14.3	0.7	5	2							34	27	31		34	30														
5 POPU TRE	14.3	0.6																												
6 PINU CON	14.3	0.4					3	2					4	2																
A2 LAYER																														
PICE GLA	100.0	6.4	10	2	5	2	5	2	5	2	10	2	5	2	5	2	5	2												
PICE MAR	42.9	3.6			5	2			10	2			15	2	3	2														
POPU BAL	42.9	2.7					1	2																						
ABIE LAS	28.6	2.1	10	2			5	2																						
7 ALNU TEN	28.6	0.3	1	2			1	2																						
PINU CON	14.3	0.1			1	2							1	2																
POPU TRE	14.3	0.1																												
B1 LAYER																														
ALNU TEN	42.9	1.3	5	2	2	2	2	2					7	2	2	2														
PICE GLA	28.6	1.3																												
POPU BAL	14.3	0.3											2	2																
8 SALI GLA	14.3	0.3																												
ABIE LAS	14.3	0.1	1	2																										
9 BETU PAP	14.3	0.1																												
PICE MAR	14.3	0.1																												
10 SALI MEL	14.3	0.1																												
B2 LAYER																														
11 ROSA ACI	100.0	2.7	1	2	1	2	3	2	1	2	2	2	10	2	1	2														
12 LONI INV	71.4	1.3	1	2	4	2	2	2	1	2			1	2																
13 VIRU EDU	42.9	2.4			5	2							10	2	2	2														
14 LEDU GRO	28.6	0.7					4	2	1	2																				
15 RIBE LAC	28.6	0.6					1	2					3	2																
ABIE LAS	28.6	0.3	1	2																										
16 SHEP CAN	14.3	2.1					1	2																						
17 CORN STO	14.3	1.9											13	2																
POPU BAL	14.3	0.9											6	2																
18 SALI DRU	14.3	0.3																												
19 LONI DIO	14.3	0.1											1	2																
PICE MAR	14.3	0.1																												
20 RIBE TRI	14.3	0.1					1	2																						
21 RUBU CHA	14.3	0.1	1	2																										
22 RUBU IDA	14.3	0.1																												
23 SPIR BET	14.3	0.1																												
24 VACC MYR	14.3	0.1																												
C LAYER																														
25 EQUI ARV	85.7	8.6	2	2	10	2			25	2	20	2	2	2	1	2														
26 LINN BOR	85.7	3.4	3	2	1	2	7	2	1	2	1	2	1	2																
27 RUBU PUB	85.7	2.7	2	2	4	2	3	2	2	2	6	2	2	2																
28 CORN CAN	71.4	2.4	2	2	2	2	9	2	1	2	3	2																		
29 MERT PAN	71.4	2.4	1	2			3	2	2	2	6	2																		

LEVEL		ZONE		ASSC TYPE		PICEA GLAUCA/EQUISETUM SPP										RESOURCE INVENTORY									
ECOSYM UNIT		BF		8		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										O2:01:08 NOV 22, 1984									
PLOT NUMBER		AVERAGE VALUE		3G P32B		3G P176		3G P156		3G 169A		20 8644		3G PO13		20 7497									
NUMBER OF SPECIES PER PLOT		31.6		34		31		34		27		31		34		30									
SPECIES		%P MC		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV									
30 MITE NUD		71.4	1.9	4	2	1	2	3	2	2	2	3	2	1	2	5	2								
31 PETA PAL		57.1	1.7			5	2	1	2							3	2								
32 EQUI SCI		57.1	0.9	1	2	1	2	1	2																
33 EQUI PRA		42.9	2.6	3	2			1	2																
34 EPIL ANG		42.9	0.7									2	2	1	2	2	2								
35 SMIL STE		42.9	0.6									1	2	1	2	1	2								
36 ACHI MIL		42.9	0.4					1	2																
37 OSMD DEP		42.9	0.4	1	2			2	2			1	2	1	2	1	2								
38 ARAL NUD		28.6	1.9									1	2												
39 FRAG VIR		28.6	0.9																						
40 EQUI SYL		28.6	0.7			1	2			4	2			1	2	5	2								
41 VIOL REN		28.6	0.6	1	2							3	2												
42 GALI BOR		28.6	0.4					2	2	1	2														
43 GALI TRI		28.6	0.4			1	2					2	2												
44 ASTE CON		28.6	0.3									1	2			1	2								
45 LATH OCH		28.6	0.3									1	2												
46 MONE UNI		28.6	0.3					1	2																
47 RUBU ARC		28.6	0.3			1	2			1	2														
48 HEDY ALP		14.3	0.7													5	2								
49 ASTE CIL		14.3	0.4					3	2																
50 ORTH SEC		14.3	0.4																						
51 GEUM TRI		14.3	0.3							2	2					3	2								
52 ARCT UVA		14.3	0.1																						
53 ARNI COR		14.3	0.1							1	2					1	2								
54 ASTE SPP		14.3	0.1											1	2										
55 DELP GLA		14.3	0.1									1	2												
56 EQUI HYE		14.3	0.1													1	2								
57 GEUM SPP		14.3	0.1	1	2																				
58 GYMN DRY		14.3	0.1			1	2																		
59 MAIA CAN		14.3	0.1									1	2												
60 OXYC MIC		14.3	0.1					1	2																
61 PYRO ASA		14.3	0.1													1	2								
62 PYRO CHL		14.3	0.1	1	2																				
63 THAL OCC		14.3	0.1																						
64 THAL VEN		14.3	0.1																						
65 VACC VIT		14.3	0.1					1	2																
66 VIGI AME		14.3	0.1													1	2								
G LAYER																									
67 ELYM INN		28.6	2.6																						
68 CALA STR		28.6	0.3	1	2					1	2														
69 CARE SPP		14.3	3.6																						
70 CALA INE		14.3	0.3					25	2																
71 CARE DIS		14.3	0.3			2	2																		
72 CALA SPP		14.3	0.1																						
73 CARE COC		14.3	0.1	1	2																				
74 CARE VAG		14.3	0.1																						
75 GLYC STR		14.3	0.1			1	2																		

PLOT NUMBER	AVERAGE VALUE	3G P32B	3G P17G	3G P156	3G 169A	20 8644	3G P013	20 7497
NUMBER OF SPECIES PER PLOT	31.6	34	31	34	27	31	34	30
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
D LAYER								
76 HYLO SPL	85.7 33.1	30	2 57	2 52	2 50	2 10	2 33	2 2
77 PTIL CRI	85.7 16.4	14	2 16	2 25	2 30	2 1	2 29	2 2
78 PLEU SCH	85.7 7.4	10	2 5	2 18	2 10	2 8	2 1	2 2
79 DICR POL	28.6 2.0	12	2 12	2 1	2 2			
80 PLAG ELL	28.6 1.9		4 2					
81 AULA PAL	14.3 0.6							
82 POLY JUN	14.3 0.6							
83 MNIU AFF	14.3 0.4					3 2		4 2
84 EURH PUL	14.3 0.3	2 2						
85 HELD BLA	14.3 0.3		2 2					
86 BRAC SPP	14.3 0.1						1 2	
87 DICR SCO	14.3 0.1	1 2						
88 MNIU ARI	14.3 0.1	1 2						
89 MNIU SPI	14.3 0.1	1 2						
90 PLAG DRU	14.3 0.1	1 2						
91 POHL NUT	14.3 0.1							
92 RHYT TRI	14.3 0.1			1 2				1 2
93 SPHA WAR	14.3 0.1				1 2			
L LAYER								
94 PELT APH	28.6 0.9			5 2	1 2			
95 PELT MAL	14.3 0.3							2 2

[illegible]

PLOT NUMBER	AVERAGE VALUE	20 4577	20 8521	20 8506	20 8528	GP 4135	GP 3106	3B F071	3B F046	3B F048							
NUMBER OF SPECIES PER PLOT	34.6	19	21	25	27	53	31	51	40	44							
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV							
A1 LAYER																	
1 PINU CON	100.0 39.1	45	2	47	2	48	2	25	2	30	3	45	3	2	55	2	
2 PICE MAR	22.2 0.7														1	2	
3 POPU TRE	11.1 0.6					5	2										
4 ABIE LAS	11.1 0.4																
5 PICE GLA	11.1 0.1														1	2	
A2 LAYER																	
PINU CON	100.0 3.5	5	2	3	2	2	2	5	2	3	3	5	3	3	2	5	2
PICE GLA	44.4 0.8					3	2					1	2	2	1	2	
PICE MAR	33.3 0.8											2	2	3	2	2	
ABIE LAS	11.1 0.7											6	2				
6 PICE ENE	11.1 0.2																
POPUL TRE	11.1 0.1	1	3														
E LAYER																	
7 CETR HAL	55.6 1.8																
8 CETR PIN	55.6 1.8											5	2	5	2	5	2
9 HYPO PHY	55.6 1.8											5	3	5	2	5	2
10 PARM AMB	55.6 1.8											5	3	5	2	5	2
11 BRYO FUS	44.4 0.6											5	3	5	2	5	2
12 PARM HYP	33.3 1.7											5	3	5	2	5	2
13 USNE SCA	33.3 1.7											5	3	5	2	5	2
14 BRYO FRE	33.3 0.7											5	3	5	2	5	2
15 PARM SUL	22.2 0.1											5	3	5	2	5	2
16 USNE ALP	22.2 0.1											5	3	5	2	5	2
17 USNE SOR	22.2 0.1											5	3	5	2	5	2
18 ALEC SAR	11.1 0.6											5	2	5	2	5	2
19 BRYO CAP	11.1 0.1											5	2	5	2	5	2
20 CETR MER	11.1 0.1											5	3	5	2	5	2
21 HYPO TUB	11.1 0.1											5	3	5	2	5	2
22 PLAT GLA	11.1 0.1											5	3	5	2	5	2
23 RAMA FAS	11.1 0.1											5	3	5	2	5	2
24 USNE SUB	11.1 0.1											5	3	5	2	5	2
B1 LAYER																	
PICE MAR	22.2 0.4											3	2	1	2		
25 SALI SCO	22.2 0.3	1	2									5	2	2	2		
ABIE LAS	11.1 0.6											5	2				
PINU CON	11.1 0.2											2	2				
PICE ENE	11.1 0.1																
PICE GLA	11.1 0.1																
POPUL TRE	11.1 0.1	1	2												1	2	
26 SALI BEB	11.1 0.1																
B2 LAYER																	
27 LEDU GRO	88.9 25.6	20	2	25	2	15	3	15	3	30	2	60	3	40	3		
28 VACC MYR	88.9 6.1	2	2	10	2	2	2	15	3	10	2	3	2	3	2	3	2
29 ROSA ACI	77.8 1.8	4	2	1	2	2	2	5	3	10	2	3	2	5	2	5	2
30 ALNU CRI	33.3 2.1											15	2	3	2	3	2
31 SPIR BET	33.3 1.4											2	2	2	1	2	
32 SORB SCO	33.3 0.9											3	2	3	2		





PLOT NUMBER	4577	8521	8506	8528	4135	3106	GP	3B	3B	3B	3B
TOWNSHIP & RANGE	W 6	W 6	W 6	W 6	W 6	W 6	GP	F071	F046	F048	F048
MERIDIAN	83L	83L	83L	83L	83L	83L	GP	83L	83L	83L	83L
MAPSHEET	6	6	6	5	8	1	GP	2	2	2	2
PHYSIOGRAPHIC SUBREGION											
GEOMORPHIC SYSTEM											
ECONOSECTION											
ELEVATION(MASL)	1228.9	1260	1280	1210	1200	1100	1305	1440	1160	1105	
SLOPE(%)	6.8	20	5	2	1	0	5	3	0	25	
ASPECT(DEG)	102	176	182	284			230	346		268	
ENVIRONMENT/SOILS :											
-----											
ECOLOGICAL MOISTURE REGIME	SM	SM	SHG	M	M	M	SM	SHG	SHG	SHG	
NUTRIENT REGIME					M	M	M	SM	M	M	
OVERLYING MATERIAL	C	L	F	F	M	M	M	MGV	Sv	MGV	
UNDERLYING MATERIAL								S	R	R	
EROSION/DEPOSITION											
SOIL SUBGROUP					BR	GL	GL	BR	O	O	
SOIL GREAT GROUP					GL	MW	W	GL	LG	LG	
SOIL DRAINAGE	W	W	MW	W				W	I	I	
SOLUM THICKNESS(CM)	69.0				66	40		67	90	82	
TYPE & DEPTH TO RESTRICT(CM)								W 46	W 50	W 61	
THICKNESS LFH(CM)	8.8				5	10		9	11	9	
pH-LFH	3.6				3.9	3.3					
-A	4.6				4.9	3.6		4.5	4.0	6.0	
-B	5.2				4.4	4.4		5.0	6.0	6.0	
-C	6.7							6.0	8.0	6.0	
TEXTURE-A/1					L	SIL		SIL	SIL	SL	
-B/2					L	CL		LS	SICL	CL	
-C/3								SCL	SICL	SICL	
COARSE FRAGMENTS-B(%)	0.0							*	*	*	
SEEPAGE(+) & MOTTILING(CM)					52			25	10		
ROOTING DEPTH(CM)	29.0										
VEGETATION :											
-----											
ASSOCIATION											
STAND AGE(YR)	87.3	81	116		81	71			18	18	
CANOPY HEIGHT(M)	18.0	22	22		20	15					
MEAN ANNUAL INCREMENT	0.0										
STRATA COVERAGE(%) -A	47.2	50	50	35	35	45		30	65	65	
-B	36.6	2	22	30	30	30		50	70	55	
-C	45.6	50	30	70	45	70		65	40	20	
-G	2.0	1	1	5	5	0		0	3	2	
-D	77.4	47	97	65	68	70		80	90	90	
-L	4.4	3	2	0	2	10		7	1	5	
SURFACE SUBST(%) -DEAD WOOD	6.8	10	3	8	15	5		3	9	5	
-BEDROCK	0.0	0	0	0	0	0		0	0	0	
-STONES	0.0	0	0	0	0	0		0	0	0	
-MIN. SOIL	0.0	0	0	0	0	0		0	0	0	
-ORGANIC	0.0	0	0	0	0	0		0	0	0	
-OPEN WATER	93.1	90	97	92	85	95		97	90	95	
-FORBS	0.1	0	0	0	0	0		0	1	0	
-GRAMINOIDS	0.0										
-BROWSE	0.0										
BIOMASS(KG/HA) -FORBS											
-GRAMINOIDS											
-BROWSE											

LEVEL				ZONE		ASSC TYPE		PINUS CONTORTA/LEDUM GROENLANDICUM/VACCINIUM MEMBRANACEUM										RESOURCE INVENTORY			
ECOSYM UNIT				BU		2		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA O2:01:08 NOV 22, 1984 TABLE 23 PAGE 1			
PLOT NUMBER								AVERAGE VALUE		3G POS1		3G PO62		3G FO52		20 8531		GP 4133			
NUMBER OF SPECIES PER PLOT								31.2		29		23		24		27		53			
SPECIES								%P MC		%C SV		%C SV		%C SV		%C SV		%C SV			
A1 LAYER																					
1 PINU CON								100.0 31.4		40 2		50 2		30 2		22 2		15 3			
2 POPU TRE								20.0 2.0								5 2		10 3			
3 ABIE LAS								20.0 1.0								1 2					
4 PICE FNE								20.0 0.2													
5 PICE MAR								20.0 0.2				1 2									
A2 LAYER																					
PINU CON								100.0 3.0		5 2		2 2		2 2		1 2		5 3			
PICE MAR								40.0 0.6				1 2		2 2							
ABIE LAS								20.0 4.0								20 2					
POPU TRE								20.0 1.0								1 2		5 3			
PICE FNE								20.0 0.2													
6 SALI SCO								20.0 0.2		1 2											
E LAYER																					
7 BRYO FUS								20.0 0.1										5 3			
8 CETR HAL								20.0 0.1										5 3			
9 CETR PIN								20.0 0.1										5 3			
10 HYPO PHY								20.0 0.1										5 3			
11 PARM AMB								20.0 0.1										5 3			
12 PARM HYP								20.0 0.1										5 3			
13 PARM SUL								20.0 0.1										5 3			
14 PLAT GLA								20.0 0.1										5 3			
15 USNE ALP								20.0 0.1										5 3			
16 USNE SOR								20.0 0.1										5 3			
17 USNE SUB								20.0 0.1										5 3			
B1 LAYER																					
18 ALNU CRI								20.0 1.0		5 2						2 2					
ABIE LAS								20.0 0.4													
B2 LAYER																					
19 VACC MEM								100.0 17.0		20 2		10 2		15 2		15 2		25 3			
20 VACC MYR								100.0 12.8		5 2		10 2		5 2		14 2		30 3			
21 LEDU GRO								100.0 9.8		1 2		18 2		10 2		10 2		10 3			
ALNU CRI								60.0 4.0		15 2		1 2		4 2							
22 SORB SCO								60.0 1.4		1 2								5 3			
ABIE LAS								60.0 1.3				1 2		1 2		5 2		5 3			
23 SPIR BET								40.0 2.4		1 2						7 2		5 3			
SALI SCO								40.0 0.3		1 2						3 2		5 3			
24 RHOD ALB								20.0 0.6								3 2					
25 ROSA ACI								20.0 0.6													
26 SALI BEB								20.0 0.4				2 2									
27 LONI INV								20.0 0.2								1 2					
28 PICE GLA								20.0 0.2						1 2							
29 RIBE TRI								20.0 0.2		1 2											
30 VIBU EDU								20.0 0.2		1 2											
PINU CON								20.0 0.1										5 3			
C LAYER																					
31 CORN CAN								100.0 7.0		9 2		3 2		6 2		12 2		5 3			
32 LINN BOR								100.0 3.2		1 2		2 2		5 2		3 2		5 3			

LEVEL		ZONE	ASSC	TYPE	PINUS CONTORTA/LEDUM GROENLANDICUM/VACCINIUM MEMBRANACEUM										RESOURCE INVENTORY			
ECOSYM UNIT		BU	2		EDMONTON, ALBERTA										NOV 22, 1984			
					O2:01:08										TABLE 23			
					VIGOR (V)										PAGE 2			
					PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)													
PLOT NUMBER	AVERAGE VALUE	3G P051	3G P062	3G P052	20 B531	GP 4133												
NUMBER OF SPECIES PER PLOT	31.2	29	23	24	27	53												
SPECIES	%P	MC	%C SV	%C SV	%C SV	%C SV												
33 RUBU PED	100.0	3.2	1.2	1.2	3.3	10.3												
34 LYCO ANN	80.0	1.6		1.2	1.2	5.3												
35 ORTH SEC	80.0	0.7	1.2		1.2	5.3												
36 EPIL ANG	40.0	1.4	2.2															
37 LYCO COM	40.0	1.2																
38 ARNI COR	40.0	1.0	4.2		1.2	5.3												
39 PETA PAL	40.0	0.6	2.2		1.2													
40 VACC VIT	40.0	0.6			1.2													
41 STRE AMP	40.0	0.3			1.2													
42 VACC CAE	20.0	2.0																
43 VACC MYT	20.0	2.0																
44 RUBU PUB	20.0	0.6	3.2			10.3												
45 SMIL RAC	20.0	0.4	2.2															
46 LIST COR	20.0	0.2			1.2													
47 PYRO CHL	20.0	0.2	1.2															
48 ASTE CON	20.0	0.1				5.3												
49 ASTE LAE	20.0	0.1				5.3												
50 HABE VIR	20.0	0.1				5.3												
51 PYRO ASA	20.0	0.1				5.3												
G LAYER																		
52 CALA STR	60.0	0.6	1.2	1.2														
53 ELYM INN	20.0	0.2			1.2													
54 CALA CAN	20.0	0.1				5.3												
D LAYER																		
55 PLEU SGI	100.0	34.6	29	60	30	20												
56 PTIL CRT	100.0	19.6	25	11	39	20												
57 HVLO SPL	100.0	15.8	1.2	2	9	20												
58 DICR SCO	40.0	0.3	1.2			5.3												
59 DICR POL	20.0	0.6			3.2													
60 DICR BRE	20.0	0.2		1.2														
61 PELT APH	20.0	0.2																
62 DICR FUS	20.0	0.1				5.3												
63 PLAG LAE	20.0	0.1				5.3												
64 POHL NUT	20.0	0.1				5.3												
65 TETR PEL	20.0	0.1				5.3												
L LAYER																		
66 PELT APH	60.0	2.8	1.2		3.2	10.3												
67 PELT MAL	20.0	0.8			4.2													
68 CLAD ECM	20.0	0.2		1.2														
69 CLAD MIT	20.0	0.2		1.2														
70 CLAD SPP	20.0	0.2		1.2														
71 CLAD GEN	20.0	0.1				5.3												
72 CLAD CON	20.0	0.1				5.3												
73 CLAD COR	20.0	0.1				5.3												
74 CLAD DEF	20.0	0.1				5.3												
75 CLAD GON	20.0	0.1				5.3												
76 CLAD PHY	20.0	0.1				5.3												

	3G	3G	3G	3G	20	GP	
PLOT NUMBER	PO51	PO62	PO52	8531	4133		
TOWNSHIP & RANGE	65 9	65 9	65 9	6113	62 2		
MERIDIAN	W	W	W	W	W	W	W
MAPSHEET	83L	83L	83L	83L	83L	83L	8
PHYSIOGRAPHIC SUBREGION	11	11	11	11	5		
GEOMORPHIC SYSTEM							
ECOSECTION							
ELEVATION(MASL)	1154.0	1130	1080	1130	1210	1220	
SLOPE(%)	6.8	25	0	4	0	5	
ASPECT(DEG)	315			41		350	
ENVIRONMENT/SOILS :							
-----							
ECOLOGICAL MOISTURE REGIME	M	M	SHG	SM	M		
NUTRIENT REGIME	SM	SM	SM		M		
OVERLYING MATERIAL	Mv1	Mv	Mv		M		
UNDERLYING MATERIAL	P	R	R				
EROSION/DEPOSITION							
SOIL SUBGROUP	E		O		GL	GL	
SOIL GREAT GROUP	DYB		LG		MW	MW	
SOIL DRAINAGE	W	MW	I	W			
SOLUM THICKNESS(CM)	38.5	34	30	55		35	
TYPE & DEPTH TO RESTRICT(CM)							
THICKNESS LFH(CM)	7.3	7	8	6		8	
pH-LFH	3.9	4.0	4.0	4.0		3.9	
-A	3.9	4.0	4.0	4.0		3.8	
-B	4.8	5.0	5.0	5.0		4.4	
-C	4.8	5.0	5.0	5.0		4.4	
TEXTURE-A/1	S1	S1	S1	S1		L	
-B/2	CL	S1L	S1L	S1L		CL	
-C/3	S1C	S1CL	S1CL	S1CL		CL	
COARSE FRAGMENTS-B(%)							
SEEPAGE(+) & MOTTILING(CM)	2.0	*		*		2	
ROOTING DEPTH(CM)	0.0						
VEGETATION :							
-----							
ASSOCIATION							
STAND AGE(YR)	94.8	80	87	132		80	
CANOPY HEIGHT(M)	19.3	16		21	20	20	
MEAN ANNUAL INCREMENT	0.0						
STRATA COVERAGE(%) -A	43.0	45	55	30	50	35	
-B	39.0	45	40	30	30	50	
-C	35.8	20	10	20	50	79	
-G	1.0	1	1	1	1	1	
-D	71.6	60	75	80	83	60	
-L	4.0	1	2	0	7	10	
SURFACE SUBST(%) -DEAD WOOD	5.4	10	5	0	7	5	
-BEDROCK	0.0	0	0	0	0	0	
-STONES	0.0	0	0	0	0	0	
-MIN. SOIL	0.0	0	0	0	0	0	
-ORGANIC	74.6	90	95	0	93	95	
-OPEN WATER	0.0	0	0	0	0	0	
BIOMASS(KG/HA) -FORBS	0.0						
-GRAMINOIDS	0.0						
-BROWSE	0.0						





RESOURCE INVENTORY  
EDMONTON, ALBERTA  
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TABLE 24 PAGE 3

PINUS CONTORTA/ALNUS CRISPA/RUBUS PUBESCENS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

LEVEL	ZONE	ASSC TYPE															
ECOSYM UNIT BU			3														
PLOT NUMBER																	
NUMBER OF SPECIES PER PLOT																	
SPECIES																	
71 PTIL CRI			AVERAGE		20		3B		3B		3G		3B				
			VALUE		5762	5766	F145	F049	P074	F045							
			38.3		25	29	50	49	28	49							
			%P	MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV							
72 DICR SCO			66.7	7.2	1 2	5 2	2 2	35 2			2 2						
73 BRAC SAL			50.0	1.2	4 2	1 2					1 2						
74 DICR POL			33.3	0.3							1 2						
75 BRAC STA			33.3	0.3							1 2						
76 DICR FUS			16.7	1.2			7 2	2 2									
77 PLAG ELL			16.7	0.3			1 2				1 2						
78 PLAG MED			16.7	0.2													
79 POHL NUT			16.7	0.2	1 2												
80 PTIL CIL			16.7	0.2		1 2											
81 PTIL PUL			16.7	0.2					1 2								
L LAYER																	
82 PELT APH			50.0	1.0							2 2						
83 CLAD MIT			16.7	0.5				3 2	1 2		3 2						
84 CLAD COR			16.7	0.2	1 2												

[illegible]



PLOT NUMBER	AVERAGE		3G		3G		3G		3G	
	VALUE		P039	P178	P154	P140				
NUMBER OF SPECIES PER PLOT										
SPECIES	%P		%C		%C		%C		%C	
	MC	SV	SV	SV	SV	SV	SV	SV	SV	SV
37 PTIL CRI	100.0	22.8	27	2	18	2	41	2	5	2
38 POLY COM	75.0	1.3	2	2			1	2	2	2
39 DICR FUS	25.0	0.8			3	2				
40 PLAG DRU	25.0	0.5	2	2						
41 AULA PAL	25.0	0.3	1	2						
42 DICR POL	25.0	0.3					1	2		
43 DREP UNC	25.0	0.3					1	2		
44 PLAG LAE	25.0	0.3			1	2				
45 POLY JUN	25.0	0.3			1	2				
46 PTIL PUL	25.0	0.3			1	2				
L LAYER										
47 PELT APH	25.0	0.3							1	2

	MEAN	3G P039 W 6	3G P178 W 6	3G P154 W 6	3G P140 W 6
PLOT NUMBER		P039	P178	P154	P140
TOWNSHIP & RANGE		65 8	6512	6612	6612
MERIDIAN		W 6	W 6	W 6	W 6
MAPSHEET		83L	83L	83L	83L
		11	12	12	12
PHYSIOGRAPHIC SUBREGION					
GEOMORPHIC SYSTEM					
ECOSECTION	1101.3	1100	1100	1095	1110
ELEVATION(MASL)					
SLOPE(%)	2.0	4	0	4	0
ASPECT(DEG)		44		373	
ENVIRONMENT/SOILS :					
-----					
ECOLOGICAL MOISTURE REGIME		SHG	M	SHG	HG
NUTRIENT REGIME		SM	SM	SM	SM
OVERLYING MATERIAL		MB	MV	GFU	MV
UNDERLYING MATERIAL		R1	R1		Rm
EROSION/DEPOSITION					
SOIL SUBGROUP		GL	E	0	0
SOIL GREAT GROUP		GL	DVB	G	LG
SOIL DRAINAGE		MW	W	I	I
SOLUM THICKNESS(CM)	39.8	49	32	38	40
TYPE & DEPTH TO RESTRICT(CM)		B 80			W 50
THICKNESS LFH(CM)	8.0	5	7	7	13
pH-LFH	0.0				
-A	4.5	4.0	5.0	4.0	5.0
-B	5.3	5.0	5.0	5.0	6.0
-C	5.5	5.0	5.0	6.0	6.0
TEXTURE -A/1		S1	S1L	LS	S1L
-B/2		S1L	S1L	LS	S1L
-C/3		S1CL	LS	LS	SCL
COARSE FRAGMENTS-B(%)	17.5	10			25
SEEPAGE(*) & MOTTILING(CM)		7		* 0	+
ROOTING DEPTH(CM)	0.0				+
VEGETATION :					
-----					
ASSOCIATION					
STAND AGE(YR)	79.3	78	76	76	87
CANOPY HEIGHT(M)	24.0	26	25	21	24
MEAN ANNUAL INCREMENT	0.0				
STRATA COVERAGE(%) -A	42.5	45	40	35	50
-B	60.0	75	35	65	65
-C	23.8	30	20	30	15
-G	0.8	1	1	1	0
-D	65.0	55	45	70	90
-L	0.3	0	0	0	1
SURFACE SUBST(%) -DEAD WOOD	5.0	5	5	5	5
-BEDROCK	0.0	0	0	0	0
-STONES	0.0	0	0	0	0
-MIN. SOIL	0.0	0	0	0	0
-ORGANIC	95.0	95	95	95	95
-OPEN WATER	0.0	0	0	0	0
-FORBS	0.0				
-GRAMINOIDS	0.0				
-BROWSE	0.0				

LEVEL		ZONE		ASSG TYPE		PINUS CONTORTA/STREPTOPUS AMPLEXIFOLIUS/PLEUROZIVM SCHREBERI										RESOURCE INVENTORY			
ECOSYM UNIT		BU		5		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA NOV 22, 1984 TABLE 26 PAGE 1			
PLOT NUMBER						AVERAGE VALUE		3B FO63		3B FO60		3B FO03		GP 3107		GP 3108			
NUMBER OF SPECIES PER PLOT						51.4		50		42		71		48		46			
SPECIES						%P MC		%C SV		%C SV		%C SV		%C SV		%C SV			
A1 LAYER																			
1 PINU CON						100.0 36.6		57 2		50 2		25 3		16 3		35 3			
2 POPU TRE						60.0 4.6		8 2		5 2		10 3							
3 POPU BAL						20.0 1.0						5 3							
4 ABIE LAS						20.0 0.4								2 3					
5 PICE ENE						20.0 0.4								2 3					
A2 LAYER																			
PINU CON						60.0 0.9		2 2				2 2				.5 3			
POP TRE						40.0 0.8		2 2				2 2							
ABIE LAS						20.0 1.0								5 3					
PICE ENE						20.0 1.0								5 3					
POP BAL						20.0 1.0						5 2							
6 PICE GLA						20.0 0.2		1 2											
E LAYER																			
7 CETR PIN						100.0 5.2		5 2		5 2		15 2		5 3		.5 3			
8 HYPO PHY						100.0 5.2		5 2		5 2		15 2		.5 3		.5 3			
9 USNE SOR						100.0 4.8		3 2		5 2		15 2		.5 3		.5 3			
10 PARM HYP						100.0 3.2		5 2		5 2		5 2		.5 3		.5 3			
11 BRYO FUS						100.0 2.6		5 2		2 2		5 2		.5 3		.5 3			
12 CETR HAL						80.0 5.1		5 2		5 2		15 2		.5 3		.5 3			
13 PARM AMB						80.0 3.1		5 2		5 2		5 2		.5 3		.5 3			
14 BRYO FRE						40.0 0.7				3 2				.5 3		.5 3			
15 USNE SCA						40.0 0.5		2 2						.5 3		.5 3			
16 USNE ALP						40.0 0.2								.5 3		.5 3			
17 USNE SUB						40.0 0.2								.5 3		.5 3			
18 ALEC SAR						20.0 0.1								.5 3		.5 3			
19 CETR ERI						20.0 0.1								.5 3		.5 3			
20 CLAD GON						20.0 0.1								.5 3		.5 3			
21 PARM SUL						20.0 0.1								.5 3		.5 3			
22 PLAT GLA						20.0 0.1								.5 3		.5 3			
B1 LAYER																			
23 ALNU CRI						20.0 1.0						5 2							
24 SALT SCO						20.0 0.6				3 2									
ABIE LAS						20.0 0.4						2 2							
PICE GLA						20.0 0.2						1 2							
POP BAL						20.0 0.2						1 2							
PICE ENE						20.0 0.1								.5 3					
B2 LAYER																			
25 VIBU EDU						100.0 6.9		10 2		7 2		7 2		5 3		10 3			
26 ROSA ACI						80.0 2.8		2 2		2 2		5 2				5 3			
ALNU CRI						60.0 1.8		2 2		2 2		2 2		5 3					
27 VACC MEM						60.0 1.8		2 2		4 2		3 2							
28 LONI INV						40.0 5.0		10 2						15 3		10 3			
29 SORB SCO						40.0 3.0						1 2		5 3		10 3			
ABIE LAS						40.0 2.2				6 2		3 2							
30 SPIR BET						40.0 1.8													
31 RIBE LAC						40.0 1.0		3 2											
32 RUBU IDA						40.0 0.8		3 2				1 2							

LEVEL		ZONE	ASSC TYPE	PINUS CONTORTA/STREPTOPUS AMPLEXIFOLIUS/PLEUROZIUM SCHREBERI										RESOURCE INVENTORY	
ECOSYM UNIT		BU	5	PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA	
				O2:01:08 NOV 22, 1984										TABLE 26 PAGE 2	
				AVERAGE		3B	3B	3B	3B	GP	GP				
PLOT NUMBER				VALUE	F063	F060	F003	3107	3108						
NUMBER OF SPECIES PER PLOT															
SPECIES				%P	MC	%C	SV	%C	SV	%C	SV				
POPUL TRE				40.0	0.6										
33 VACC MYR				40.0	0.6					2	3				
PICE GLA				40.0	0.4	1	2								
34 LEDU GRO				20.0	2.0					10	3				
SALI SCO				20.0	1.0										
35 RIBE SPP				20.0	0.4										
36 PICE MAR				20.0	0.2										
POPUL BAL				20.0	0.2										
37 RIBE TRI				20.0	0.2										
38 RUBU PAR				20.0	0.2	1	2								
39 RIBE OXY				20.0	0.1										
C LAYER															
40 RUBU PED				100.0	13.0	35	2								
41 LINN BOR				100.0	10.8	5	2	35	2	2	2	15	3	10	3
42 CORN CAN				100.0	10.2	5	2	20	2	8	2	5	3	5	3
43 LYCO ANN				100.0	6.1	15	2	10	2	1	2	4	3	5	3
44 STRE AMP				80.0	6.2	10	2	7	2	4	2	10	3	5	3
45 ARNI COR				80.0	4.6			10	2	12	2	5	3	5	3
46 EPIL ANG				80.0	3.8	7	2	1	2	10	2			1	3
47 RUBU PUB				80.0	3.6	5	2	5	2	3	2			5	3
48 PETA PAL				80.0	1.5	1	2					5	3	5	3
49 ORTH SEC				80.0	1.2	1	2	1	2	2	2	2	3		
50 STRE ROS				60.0	7.8					4	2	20	3	15	3
51 GYMN DRY				60.0	7.4	35	2			1	2	1	3		
52 PYRO ASA				60.0	5.4	5	2	10	2	12	2				
53 MERT PAN				60.0	2.8	3	2	1	2	10	2				
54 EQUI PRA				60.0	1.8	3	2					5	3	1	3
55 TIAR UNI				40.0	2.6							8	3	5	3
56 HERA LAN				40.0	2.0	8	2			2	2				
57 ACTA RUB				40.0	1.8	8	2			1	2				
58 SMIL RAC				40.0	1.8			2	2	7	2				
59 MITE NUD				40.0	1.2	2	2			4	2				
60 VERA ESC				40.0	1.2							1	3	5	3
61 ASTE CON				40.0	0.8			1	2	3	2				
62 MAIA CAN				40.0	0.7					3	2				
63 ATHY FIL				40.0	0.6	2	2							5	3
64 EQUI SYL				40.0	0.6	1	2			2	2				
65 PYRO CHL				40.0	0.4	1	2			1	2				
66 ARAL NUD				20.0	1.4					7	2				
67 LATH OCH				20.0	1.0					5	2				
68 RUBU PAA				20.0	1.0					5	2				
69 DELP GLA				20.0	0.6					3	2				
70 VACC CAE				20.0	0.6									3	3
71 ANEM PAR				20.0	0.2					1	2				
72 CORA TRI				20.0	0.2										
73 EQUI ARV				20.0	0.2					1	2				
74 OSMO PUR				20.0	0.2					1	2				
75 THAL VEN				20.0	0.2					1	2				

LEVEL ZONE ASSC TYPE  
ECOSYM UNIT BU 5

PINUS CONTORTA/STREPTOPUS AMPLEXIFOLIUS/PLEUROZIUM SCHREBERI  
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 26 PAGE 3  
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RESOURCE INVENTORY  
EDMONTON, ALBERTA

PLOT NUMBER	AVERAGE VALUE	3B F063	3B F060	3B F003	GP 3107	GP 3108
NUMBER OF SPECIES PER PLOT	51.4	50	42	71	48	46
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV
76 VACC VIT	20.0 0.2			1 2		
77 VIOL ORB	20.0 0.2			1 2		
G LAYER						
78 ELYM INN	40.0 1.6		1 2 7 2			
79 CALA STR	40.0 1.0		2 2 3 2			
80 CALA CAN	40.0 0.3					
81 CALA INE	20.0 0.6	3 2			.5 3 1 3	
D LAYER						
82 PLEU SCH	100.0 17.6	15 2 20 2	3 2 20 3 30 3			
83 PTIL CRI	100.0 7.6	15 2 2 2 1 2 10 3 10 3				
84 HYLO SPL	80.0 14.2	10 2 1 2 30 3 30 3				
85 POHL NUT	60.0 0.9	2 2 2 2			.5 3	
86 DICR FUS	60.0 0.6		2 2 2 2		.5 3	
87 PLAG MED	40.0 0.8	3 2 2 2	1 2			
88 POLY JUN	40.0 0.6	1 2 2 2	8 2			
89 BRAC LEI	20.0 1.6					
90 BRAC STA	20.0 1.0	5 2				
91 DICR SCO	20.0 0.4	2 2				
92 BARB HAT	20.0 0.1				.5 3	
93 JAME AUT	20.0 0.1				.5 3	
94 LEPI REP	20.0 0.1					
95 PTIL PUL	20.0 0.1				.5 3	
L LAYER						
96 PELT APH	80.0 6.0		2 2 3 2 15 3 10 3			
97 CLAD COI	40.0 0.2				.5 3	
CETR PIN	20.0 0.2	1 2				
98 CETR NIV	20.0 0.1					.5 3
99 CLAD GEN	20.0 0.1					.5 3
100 CLAD CON	20.0 0.1				.5 3	
101 CLAD COR	20.0 0.1					.5 3
102 CLAD GRA	20.0 0.1					.5 3
103 ICMA ERI	20.0 0.1				.5 3	

PLOT NUMBER	3B	3B	3B	3B	GP	GP	GP
TOWNSHIP & RANGE	FO63	FO60	FO03	FO03	3107	3108	
MERIDIAN	W	W	W	W	W	W	
MAPSHEET	83L	83L	83L	83L	83L	83L	
PHYSIOGRAPHIC SUBREGION	1	1	1	1	8	1	
GEOMORPHIC SYSTEM							
ECOSECTION	1210	1220	1260	1370	1335		
ELEVATION(MASL)	18.2	25	40	21	5		
SLOPE(%)	66	342	223		330		
ASPECT(DEG)							
ENVIRONMENT/SOILS :							
ECOLOGICAL MOISTURE REGIME	M	M	M	SM	SM		
NUTRIENT REGIME	M	M	SM	M	M		
OVERLYING MATERIAL	Cmv	Cv	Mgb	M	M		
UNDERLYING MATERIAL	S	S					
EROSION/DEPOSITION							
SOIL SUBGROUP	O	O	BR	BR	E		
SOIL GREAT GROUP	GL	GL	GL	GL	DYB		
SOIL DRAINAGE	MW	MW	MW	MW	W		
SOLUM THICKNESS(CM)	64.4	82	100	70	30	40	
TYPE & DEPTH TO RESTRICT(CM)							
THICKNESS LFH(CM)	6.6	5	6	4	10	8	
pH-LFH	3.3				2.8	3.8	
-A	4.2	5.5	4.5	4.5	3.7	3.0	
-B	4.9	6.0	5.5	4.5	4.3	4.2	
-C	6.1	8.0		8.0	4.2	4.3	
TEXTURE -A/1	L	SL	SL	L	CL	CL	
-B/2	SC	SC	CL	CL	CL	CL	
-C/3							
COARSE FRAGMENTS-B(%)	1.3	1	2	1			
SEEPAGE(*) & MOTTILING(CM)							
ROOTING DEPTH(CM)	38.0	40	43	31			
VEGETATION :							
ASSOCIATION							
STAND AGE(YR)	110	25	4	22	145	76	
CANOPY HEIGHT(M)	17.2				20	15	
MEAN ANNUAL INCREMENT	0.0						
STRATA COVERAGE(%) -A	45.0	70	50	40	30	35	
-B	25.0	25	15	25	35	25	
-C	68.6	70	65	55	69	84	
-G	3.4	3	2	10	1	1	
-D	48.0	40	35	15	70	80	
-L	5.2	1	2	3	10	10	
-BEDROCK	9.4	5	17	5	15	5	
-BEDROCK	0.0	0	0	0	0	0	
-STONES	0.0	0	0	0	0	0	
-MIN SOIL	0.0	0	0	0	0	0	
-ORGANIC	0.0	0	0	0	0	0	
-OPEN WATER	90.6	95	83	95	85	95	
-GRAMINOIDS	0.0	0	0	0	0	0	
-BROWSE	0.0	0	0	0	0	0	

PICEA GLAUCA/HYLOCOMIUM SPLENDENS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 27 PAGE 1



LEVEL	ZONE	ASSC	TYPE
ECOSYM UNIT	BU	6	
PICEA GLAUCA/HYLOCOMIUM SPLENDENS			
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (%S), VIGOR (V)			
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TABLE 27 PAGE 3			

PLOT NUMBER	AVERAGE VALUE	3G P152	20 5764	20 8646	20 8628	20 5763	20 4134	GP 8530	20 3109	3B F070	3B F066	GP 3105	3B F113
NUMBER OF SPECIES PER PLOT	38.7	27	25	37	23	30	48	16	42	44	57	66	49
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
80 OSMO CHI	8.3 0.3										3 2	2 3	
81 STEN OCC	8.3 0.2											2 3	
82 VIOL RUG	8.3 0.2												1 2
83 ASTR AME	8.3 0.1										1 2		
84 CORA TRI	8.3 0.1											57	49
85 LIST BOR	8.3 0.1	1 2											
86 LIST COR	8.3 0.1										1 2	.5 3	
87 GERA VIS	8.3 0.0												
G LAYER													
88 ELYM INN	58.3 1.2												
89 CALA STR	25.0 0.3	1 2		1 2	1 2	1 2		1 2		1 2	5 2		4 2
90 CALA CAN	25.0 0.2		1 2							1 2		.5 3	1 2
91 AGRO TRA	8.3 0.1				1 2								
92 CARE SPP	8.3 0.1	1 2											
93 POLY JUN	8.3 0.1				1 2								
D LAYER													
94 HYLO SPL	100.0 23.0	26 2 26 2	46 2	2 2	2 2	1 2	20 3	65 2	30 3	15 2	5 2	.5 3	40 2
95 PTIL CRI	100.0 21.5	20 2 34 2	19 2	2 2	4 2	20 3	4 2	20 3	40 2	35 2	5 3	50 2	
96 PLEU SCH	100.0 20.5	2 2 31 2	25 2	1 2	33 2	20 3	6 2	40 3	35 2	50 2	.5 3	2 2	
97 DICR SCO	33.3 1.0	1 2			1 2		7 2			3 2			
POLY JUN	33.3 0.5		1 2	4 2						1 2		.5 3	1 2
98 DICR FUS	33.3 0.3					.5 3		1 2	.5 3		5 2		
99 RHYT TRI	16.7 0.5								.5 3			.5 3	
100 ANAS HEL	16.7 0.1					.5 3						.5 3	
101 JAME AUT	16.7 0.1											.5 3	
102 MNIU SPI	16.7 0.1	1 2										.5 3	
103 PTIL PUL	16.7 0.1								.5 3			.5 3	
104 PELT APH	8.3 0.8					10 3						.5 3	
105 DICR POL	8.3 0.2	2 2											
106 MNIU AFF	8.3 0.1		1 2								1 2		
107 PLAG MED	8.3 0.1												
108 POHL NUT	8.3 0.1				1 2			1 2				.5 3	
109 TIMM AUS	8.3 0.1												
110 BRAC SAL	8.3 0.0											.5 3	
111 DICR FLA	8.3 0.0					.5 3						.5 3	
112 EURH PUL	8.3 0.0											.5 3	
113 LOPH LON	8.3 0.0								.5 3			.5 3	
114 PLAG CUS	8.3 0.0											.5 3	
115 POLY COM	8.3 0.0						.5 3						
L LAYER													
PELT APH	50.0 1.6												
116 CLAD CHL	25.0 0.2		1 2			1 2	.5 3	4 2	10 3	3 2		.5 3	
117 CLAD MIT	25.0 0.2					1 2	.5 3		.5 3				
118 CLAD CEN	25.0 0.1	1 2					.5 3		.5 3			.5 3	
119 CLAD COI	16.7 0.1						.5 3		.5 3			.5 3	
120 CLAD CON	16.7 0.1						.5 3		.5 3			.5 3	
121 CLAD COR	16.7 0.1					1 2	.5 3		.5 3				
122 CLAD ECM	8.3 0.1					1 2							



TITLE :															
	MEAN	3G	20	20	20	20	20	20	20	20	3B	3B	3B	3B	3B
PLOT NUMBER	P152	5764	8646	8628	5763	4134	8530				GP	F066	3105	GP	F113
TOWNSHIP & RANGE	6512	62 8	62 8	5913	6210	62 2	6113	61 2	58 5	59 6	61 2	58 5	61 3	58 5	61 3
MERIDIAN	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6
MAPSHEET	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L
	12	6	6	4	6	6	8	5	8	8	2	2	8	2	2
PHYSIOGRAPHIC SUBREGION															
GEOMORPHIC SYSTEM															
ECOSECTION	1284.5	1105	1180	1480	1360	1430	1120	1180	1275	1300	1290			1410	
ELEVATION(MASL)	21.3	8	18	8	0	36	7	47	19	34	20	36	22	22	95
SLOPE(%)		31	334	128		268	210	306	250	287	90	250	95		
ASPECT(DEG)															
ENVIRONMENT/SOILS :															
ECOLOGICAL MOISTURE REGIME		HG	SHG	SHG	HG	M	M	M	M	M	SHG	SHG	M		
NUTRIENT REGIME		PM									M	M	M	E	
OVERLYING MATERIAL		MGV	CM	M	F	C	M	C			MGV	CV	CV	S	
UNDERLYING MATERIAL		R1									S	R	S	S	
EROSION/DEPOSITION		W													
SOIL SUBGROUP		H									O	O	D	O	
SOIL GREAT GROUP		LG									GL	GL	GL	EB	
SOIL DRAINAGE		I	MW	MW	MW	W	W	W	W	W	MW	MW	MW	MW	
SOLUM THICKNESS(CM)	36.7	31					55		35	65	11	33	27	33	27
TYPE & DEPTH TO RESTRICT(CM)		W 50							W 57	W 57		B 27	B 27	B 27	9
THICKNESS LFH(CM)	8.6	5					3.6		4.5	5.5		3.6	5.2	8.0	
pH-LFH	5.8	8.0					3.4		4.2	5.0		5.2	8.0	8.0	
-A									4.5	5.0		6.0	8.0	8.0	
-B	6.2	8.0					4.2		5.0	7.0		7.5	6.5	8.0	
-C	7.0	8.0					4.8		7.0	7.0		L	L	L	
TEXTURE -A/1		S1C					S1L		S1L	S1L		CL	CL	CL	
-B/2		CL					L		CL	SCL		CL	CL	CL	
-C/3		S1CL					L	2	10	10		CL	CL	CL	
COARSE FRAGMENTS-B(%)	8.0									*				10	
SEEPAGE(*) & MOTTILING(CM)		*	18							26	30	20	40		
ROOTING DEPTH(CM)	33.4						51								
VEGETATION :															
ASSOCIATION															
STAND AGE(YR)	142.4	111	139		285	84	74	27	17	26	22	102	20	25	
CANOPY HEIGHT(M)	24.4	26	39		30	18	18								
MEAN ANNUAL INCREMENT	0.0														
STRATA COVERAGE(%) -A	52.7	50	20	60	50	60	50	65	40	65	70	40	62	62	
-B	23.8	15	20	15	25	40	45	5	45	15	20	40	0	0	
-C	43.3	25	35	55	30	20	60	5	45	70	70	74	30	30	
-G	1.5	0	1	1	0	2	0	1	0	2	5	1	5	5	
-D	72.7	50	95	85	10	35	80	91	95	86	95	60	90	90	
-L	3.7	1	0	1	0	5	10	4	5	4	3	10	1	1	
SURFACE SUBST(%) -DEAD WOOD	9.8	2	5	12	10	3	5	8	25	10	5	25	7	7	
-BEDROCK	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-STONES	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-MIN SOIL	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	
-ORGANIC	86.9	98	0	0	40	0	0	0	0	0	0	0	0	0	
-OPEN WATER	0.0	0	0	0	50	97	95	92	75	90	95	75	93	93	
-FORBS	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-GRAMINOIDS	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-BROWSE	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	

LEVEL		ZONE	ASSC TYPE		PICEA MARIANA-PINUS CONTORTA/LEDUM GRO-VACCINIUM MEM/HYLOCOMIUM										RESOURCE INVENTORY			
ECOSYM UNIT		BU	7		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA			
					02:01:08 NOV 22, 1984										TABLE 28 PAGE 1			
PLOT NUMBER	AVERAGE		3B		20		8537		20		8529		20		7476		3G	
	VALUE		FOO4		%		%		%		%		%		%		%	
NUMBER OF SPECIES PER PLOT			30.2		34		24		26		38		29					
SPECIES	%P		MC		%C		SV		%C		SV		%C		SV		%C	
A1 LAYER																		
1 PICE MAR	100.0	28.0	30	2	40	2	30	2	20	2	20	2	20	2	20	2	20	2
2 PINU CON	100.0	11.0	30	2	5	2	13	2	5	2	13	2	5	2	13	2	5	2
3 ABIE LAS	20.0	1.4			7	2												
4 PICE GLA	20.0	0.2															1	2
A2 LAYER																		
PICE MAR	100.0	8.4	2	2	5	2	10	2	10	2	10	2	15	2				
PINU CON	60.0	2.2	1	2	3	2	2	2	8	2								
ABIE LAS	20.0	0.6																
PICE GLA	20.0	0.2															1	2
E LAYER																		
5 BRYO FUS	20.0	1.0	5	2														
6 CETR HAL	20.0	1.0	5	2														
7 PARM HYP	20.0	1.0	5	2														
8 USNE SOP	20.0	1.0	5	2														
B1 LAYER																		
PICE MAR	80.0	1.8	1	2	1	2	5	2	1	2	5	2	2	2				
ABIE LAS	20.0	0.2			1	2												
B2 LAYER																		
9 LEDU GRO	100.0	14.4	7	2	10	2	15	2	20	2	20	2	20	2				
PICE MAR	80.0	1.8	2	2	1	2	4	2	2	2	1	2	1	2				
10 ROSA ACI	80.0	1.4			2	2	3	2	1	2	1	2	1	2				
11 VACC MEM	60.0	4.8	12	2	7	2												
12 VACC MYR	60.0	1.6	4	2	3	2	3	2	1	2								
13 SALI BAR	20.0	1.4							7	2								
14 LONI INV	20.0	1.2																
ABIE LAS	20.0	0.6			3	2												
15 SALI MYR	20.0	0.6							3	2								
16 RIBE LAC	20.0	0.2			1	2												
17 SALI BEB	20.0	0.2															1	2
C LAYER																		
18 CORN CAN	100.0	7.4	5	2	2	2	18	2	9	2	9	2	3	2				
19 VACC VIT	100.0	5.2	2	2	7	2	8	2	7	2	7	2	2	2				
20 LINN BOR	80.0	1.2	2	2	2	2	2	2	2	2	1	2	1	2				
21 VACC CAE	80.0	1.0	2	2			1	2	1	2	1	2	1	2				
22 LYCO ANN	60.0	0.8	2	2	1	2												
23 PETA PAL	60.0	0.8	1	1					2	2	2	2	1	2				
24 EQUI SYL	40.0	0.8	3	2														
25 EQUI SCI	40.0	0.4			1	2			1	2			1	2				
26 MERT PAN	40.0	0.4											1	2				
27 GAUL HTS	20.0	2.0	10	2														
28 LYCO COM	20.0	1.4	7	2														
29 ORTH SEC	20.0	0.6	3	2														
30 RUBU PED	20.0	0.4	2	2														
31 ACHI MIL	20.0	0.2											1	2				
32 ANEM PAR	20.0	0.2											1	2				
33 ARNI COR	20.0	0.2											1	2				
34 EPIL ANG	20.0	0.2															1	2

LEVEL ZONE ASSC TYPE  
ECOSYM UNIT BU 7

PICEA MARIANA-PINUS CONTORTA/LEDUM GRD-VACCINIUM MEM/HYLOCOMIUM  
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)  
O2:01:08 NOV 22, 1984  
TABLE 28 PAGE 2

PLOT NUMBER	AVERAGE VALUE	3B F004	20 8537	20 8529	20 7476	3G P190
NUMBER OF SPECIES PER PLOT	30.2	34	24	26	38	29
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV
35 EQUI PRA	20.0 0.2				1 2	1 2
36 FRAG VIR	20.0 0.2				1 2	
37 GALI BOR	20.0 0.2					1 2
38 MITE NUD	20.0 0.2				1 2	
39 PARN PAL	20.0 0.2				1 2	
40 VTOL ORB	20.0 0.2				1 2	
G LAYER						
41 ELYM INN	40.0 0.4			1 2	1 2	1 2
42 CALA INE	20.0 0.2					
D LAYER						
43 HYLO SPL	100.0 44.2	40 2 63	24 2	15 2 79	2	11 2
44 PTIL CRI	80.0 14.2	30 2 22	2 8 2			
45 PLEU SCH	80.0 12.8	20 2	5 2 38	2	1 2	1 2
46 DICR SCO	80.0 1.2		1 2 3 2	1 2	1 2	1 2
47 DICR POL	60.0 0.6		1 2	1 2	1 2	1 2
48 AULA PAL	40.0 2.0			9 2	2 2	1 2
49 DICR FUS	40.0 0.8	2 2		2 2		
50 POLY JUN	40.0 0.8	3 2		1 2		
51 POHL NUT	20.0 0.2			1 2		1 2
52 POLY STR	20.0 0.2					
L LAYER						
53 PELT APH	100.0 4.4	8 2	6 2	2 2	5 2	1 2
54 PELT MAL	80.0 2.6	2 2	2 2	8 2	1 2	2
55 CLAD MIT	60.0 1.2	2 2	2 2	2 2	2 2	
56 STER TOM	40.0 2.0	1 2		2 2	9 2	
57 CLAD RAN	40.0 0.8	2 2				
58 CLAD COR	20.0 1.8			9 2	9 2	
59 CLAD GRA	20.0 1.8			9 2		
60 CLAD CRI	20.0 0.2			1 2		1 2
61 CLAD STE	20.0 0.2					

35 EQUI PRA	20.0 0.2				1 2	1 2
36 FRAG VIR	20.0 0.2				1 2	
37 GALI BOR	20.0 0.2					1 2
38 MITE NUD	20.0 0.2				1 2	
39 PARN PAL	20.0 0.2				1 2	
40 VTOL ORB	20.0 0.2				1 2	
G LAYER						
41 ELYM INN	40.0 0.4			1 2	1 2	1 2
42 CALA INE	20.0 0.2					
D LAYER						
43 HYLO SPL	100.0 44.2	40 2 63	24 2	15 2 79	2	11 2
44 PTIL CRI	80.0 14.2	30 2 22	2 8 2			
45 PLEU SCH	80.0 12.8	20 2	5 2 38	2	1 2	1 2
46 DICR SCO	80.0 1.2		1 2 3 2	1 2	1 2	1 2
47 DICR POL	60.0 0.6		1 2	1 2	1 2	1 2
48 AULA PAL	40.0 2.0			9 2	2 2	1 2
49 DICR FUS	40.0 0.8	2 2		2 2		
50 POLY JUN	40.0 0.8	3 2		1 2		
51 POHL NUT	20.0 0.2			1 2		1 2
52 POLY STR	20.0 0.2					
L LAYER						
53 PELT APH	100.0 4.4	8 2	6 2	2 2	5 2	1 2
54 PELT MAL	80.0 2.6	2 2	2 2	8 2	1 2	2
55 CLAD MIT	60.0 1.2	2 2	2 2	2 2	2 2	
56 STER TOM	40.0 2.0	1 2		2 2	9 2	
57 CLAD RAN	40.0 0.8	2 2				
58 CLAD COR	20.0 1.8			9 2	9 2	
59 CLAD GRA	20.0 1.8			9 2		
60 CLAD CRI	20.0 0.2			1 2		1 2
61 CLAD STE	20.0 0.2					

MEAN	3B	20	20	20	20	3G
FOO4	8537	7476	P190			
60 3	62 7	6113	6312	6514		
W 6	W 6	W 6	W 6	W 6		
83L	83L	83L	83L	83L		
1	7	5	5	12		
PHYSIOGRAPHIC SUBREGION						
GEOMORPHIC SYSTEM						
ECOSECTION						
ELEVATION(MASL)	1208.0	1250	1240	1140	1230	1180
SLOPE(%)	6.0	8	4	5	1	12
ASPECT(DEG)		16	286	290	240	200
ENVIRONMENT/SOILS :						
ECOLOGICAL MOISTURE REGIME	SHG	M	SM	M	SHG	SM
NUTRIENT REGIME	M				M	M1
OVERLYING MATERIAL	Mgb	M	M	M		
UNDERLYING MATERIAL						
EROSION/DEPOSITION	O				E	DVB
SOIL SUBGROUP	LG	I	W	W	MW	
SOIL GREAT GROUP						
SOIL DRAINAGE						
SOLUM THICKNESS(CM)	47.5	61			34	B200
TYPE & DEPTH TO RESTRICT(CM)	5.5	2			9	
THICKNESS LFH(CM)	0.0					
pH-LFH	4.3	4.5			4.0	4.0
-B	5.3	6.5			4.0	6.0
-C	7.0	8.0			LS	LS
TEXTURE -A/1	LS	SCL			SCL	
-B/2	CL					
-C/3						
COARSE FRAGMENTS-B(%)	15.5	1			30	
SEEPAGE(+) & MOTTILING(CM)	25					
ROOTING DEPTH(CM)	38.0	38				
VEGETATION :						
ASSOCIATION						
STAND AGE(YR)	183.0	16			183	20
CANOPY HEIGHT(M)	18.0					
MEAN ANNUAL INCREMENT	0.0					
STRATA COVERAGE(%) -A	51.0	60	60	55	40	40
-B	25.4	25	25	30	30	30
-C	22.0	25	20	25	30	10
-G	0.4	0	0	1	0	1
-D	70.8	80	87	82	10	95
-L	14.8	15	8	13	35	3
SURFACE SUBST(%) -DEAD WOOD	7.0	3	10	10	2	10
-BEDROCK	0.0	0	0	0	0	0
-STONES	0.0	0	0	0	0	0
-MIN. SOIL	0.0	0	0	0	0	0
-ORGANIC	0.0	0	0	0	0	0
-OPEN WATER	93.0	97	90	90	98	90
BIOMASS(KG/HA) - FORBS	0.0	0	0	0	0	0
-GRAMINOIDS	0.0	0	0	0	0	0
-BROWSE	0.0	0	0	0	0	0

## PICEA MARIANA/RUBUS CHAMAEMORUS/SPHAGNUM SPP

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LEVEL	ZONE	ASSC	TYPE
ECOSYM UNIT	BU	8	
PLOT NUMBER			
NUMBER OF SPECIES PER PLOT			
SPECIES			
A1 LAYER			
1 PICE MAR			
2 PICE ENE			
3 LARI LAR			
4 PINU CON			
A2 LAYER			
PICE MAR			
PICE ENE			
E LAYER			
5 USNE SPP			
6 BRYO SPP			
7 CETR PIN			
8 HYPO PHY			
B1 LAYER			
PICE MAR			
LARI LAR			
B2 LAYER			
9 BETU GLA			
10 LEDU GRO			
PICE MAR			
11 LONI INV			
12 SALI BAR			
13 SALI MYR			
14 SALI PLA			
15 SALI SPP			
16 SALI PED			
17 SALI FAR			
18 ROSA ACI			
19 SALI GLA			
20 BETU PUM			
LARI LAR			
C LAYER			
21 VACC VIT			
22 EQUI SGI			
23 PETA PAL			
24 MITE NUD			
25 EQUI ARV			
26 RUBU CHA			
27 OXYC MIC			
28 VACC CAE			
29 CORN CAN			
30 SMIL TRI			
31 LINN BOR			
32 ACHI MIL			
33 EQUI SYL			
34 EMPE NIG			
35 GALI BOR			
36 RUBU ARC			

PRESENCE (%)	MEAN COVER (MC)	PERCENT COVER (%)	SOCIABILITY (S)	VIGOR (V)	TABLE 29	PAGE 1
AVERAGE VALUE	20	38	20	20	20	20
8538	FOG1	8535	8516	4582	8567	
31.7	31	35	29	32	25	
%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
100.0 24.3	25 2	10 2	17 2	32 2	31 2	31 2
16.7 1.2				7 2		
16.7 0.5	3 2					
16.7 0.3	2 2					
83.3 5.8	5 2	8 2	10 2	7 2	5 2	
16.7 0.3				2 2		
16.7 2.5	15 2					
16.7 0.8	5 2					
16.7 0.8	5 2					
16.7 0.8	5 2					
100.0 4.5	5 2	5 2	2 2	5 2	5 2	
16.7 0.2	1 2					
83.3 7.8	7 2	5 2	3 2	2 2	30 2	
66.7 13.3	15 2	30 2	20 2		15 2	
66.7 3.0	6 2	5 2	5 2	2 2		
66.7 1.5	1 2		2 2	5 2	1 2	
50.0 4.8			5 2	4 2	20 2	
33.3 1.2	2 2	5 2				
16.7 1.7	10 2					
16.7 1.3			8 2			
16.7 1.2						
16.7 0.8		5 2				
16.7 0.7		4 2				
16.7 0.7			4 2			
16.7 0.5			3 2			
16.7 0.2	1 2					
100.0 2.5	2 2	3 2	3 2	2 2	2 2	
83.3 1.8	2 2	3 2	3 2	2 2	2 2	
83.3 1.5	1 2	3 2	3 2	1 2	1 2	
83.3 1.0	1 2	1 2	1 2	2 2		
66.7 8.7	1 2	25 2	7 2	19 2	4 2	
50.0 3.3	7 2			9 2	1 2	
50.0 1.3	2 2					
50.0 1.3	1 2		2 2			
50.0 1.2	2 2		3 2		2 2	
50.0 1.2	5 2			1 2	1 2	
50.0 0.7	1 2		2 2	1 2		
50.0 0.5	1 2		1 2	2 2		
33.3 0.8			3 2	2 2		
33.3 0.7			3 2	1 2		
33.3 0.5			2 2	1 2		
33.3 0.3			1 2	1 2	1 2	





LEVEL	ZONE	ASSC	TYPE	ECOSYM UNIT	BU	9	PRESENCE (%P)	MEAN COVER (MC)	PERCENT COVER (%C)	SOCIABILITY (S)	VIGOR (V)	TABLE 30	PAGE 1
PLOT NUMBER	AVERAGE VALUE	20	8596	20	7494	8636							
NUMBER OF SPECIES PER PLOT	20.3	20	20	20	20	21							
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV					
A1 LAYER													
1 LARI LAR	33.3	1.3			4	2							
2 PICE MAR	33.3	0.3			1	2							
B1 LAYER													
LARI LAR	66.7	6.7			15	2							
PICE MAR	33.3	0.3			1	2							
B2 LAYER													
3 BETU GLA	100.0	44.0			35	2							
LARI LAR	66.7	7.7			18	2							
4 SALI PLA	33.3	6.7			20	2							
5 LEDU GRO	33.3	4.0											
6 SALI MYR	33.3	3.3			10	2							
PICE MAR	33.3	0.7			2	2							
C LAYER													
7 SMIL TRI	66.7	3.3			8	2							
8 GEUM RIV	66.7	3.0			8	2							
9 VACC VIT	66.7	2.0			2	2							
10 RUBU ARC	66.7	1.3			3	2							
11 MITE NUD	66.7	1.0			2	2							
12 OXYC MIC	66.7	1.0			2	2							
13 ACHI MIL	33.3	0.3			1	2							
14 DELP GLA	33.3	0.3			1	2							
15 EQUIT HVE	33.3	0.3			1	2							
16 GALI TRI	33.3	0.3			1	2							
17 MERT PAN	33.3	0.3			1	2							
18 VALE DIO	33.3	0.3			1	2							
G LAYER													
19 CARE AQU	66.7	3.3			9	2							
20 CALA INE	66.7	1.7			2	2							
21 CARE DIS	66.7	1.7			3	2							
22 CARE PAP	66.7	1.0			2	2							
23 CARE GYN	33.3	1.0			3	2							
24 CARE VAG	33.3	1.0			3	2							
25 DESC CES	33.3	0.7			2	2							
26 CARE BRU	33.3	0.3											
27 CARE TEN	33.3	0.3											
D LAYER													
28 AULA PAL	100.0	16.0			25	2							
29 TOME NIT	66.7	10.3			15	2							
30 SPHA ANG	33.3	26.0			78	2							
31 SPHA WAR	33.3	16.0			48	2							
32 SPHA FUS	33.3	15.0											
33 SPHA TER	33.3	6.3											
34 POLY JUN	33.3	2.0											
35 RHIZ GRA	33.3	1.3											
36 DICR SCO	33.3	0.7											
37 PLAG ELL	33.3	0.3			1	2							
38 POLY STR	33.3	0.3											

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BETULA GLANDULOSA/CAREX SPP/SPHAGNUM SPP

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

LEVEL	ZONE	ASSC TYPE	AVERAGE	20	20	20	20	20
ECOSYM UNIT	BU	9	VALUE	8596	7494	8636		
PLOT NUMBER								
NUMBER OF SPECIES PER PLOT			20.3	20	20	21		
SPECIES			%P	MC	%C	SV	%C	SV
39	THUI REC		33.3	0.3	1	2		
	L LAYER							
40	PELT MAL		33.3	0.3	1	2		

PLOT NUMBER	20	20	20
TOWNSHIP & RANGE	8596	7494	8636
MERIDIAN	W	W	W
MAPSHEET	6	6	6
PHYSIOGRAPHIC SUBREGION	83L	83L	83L
GEOMORPHIC SYSTEM	7	1	1
ECOSECTION			
ELEVATION(MASL)	1260.0	1290	1280
SLOPE(%)	0.7	0	0
ASPECT(DEG)	262		
ENVIRONMENT/SOILS :			
ECOLOGICAL MOISTURE REGIME	HG	HG	SHG
NUTRIENT REGIME	MQ	F	QF
OVERLYING MATERIAL			
EROSION/DEPOSITION			
SOIL SUBGROUP			
SOIL GREAT GROUP			
SOIL DRAINAGE	I	P	P
SOLUM THICKNESS(CM)	0.0		
TYPE & DEPTH TO RESTRICT(CM)			
THICKNESS LFH(CM)	0.0		
pH-LFH	0.0		
-A	0.0		
-B	0.0		
-C	0.0		
TEXTURE -A/1			
-B/2			
-C/3			
COARSE FRAGMENTS-B(%)	0.0		
SEEPAGE(*) & MOTTLING(CM)			
ROOTING DEPTH(CM)	0.0		
VEGETATION :			
ASSOCIATION			
STAND AGE(YR)	0.0		
CANOPY HEIGHT(M)	0.0		
MEAN ANNUAL INCREMENT	0.0		
STRATA COVERAGE(%) -A	1.7	0	5
-B	71.7	70	65
-C	11.7	20	10
-G	9.3	5	15
-D	93.3	90	95
-L	0.3	1	0
SURFACE SUBST(%) -DEAD WOOD	1.0	0	1
-BEDROCK	0.0	0	0
-STONES	0.0	0	0
-MIN. SOIL	0.0	0	0
-ORGANIC	98.0	97	99
-OPEN WATER	0.0	0	0
BIOMASS(KG/HA) - FORBS	0.0		
-GRAMINOIDS	0.0		
-BROWSE	0.0		

LEVEL				ZONE		ASSC TYPE		DRY MEADOW-FLUVIAL									
ECOSYM UNIT				BU		10		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)									
PLOT NUMBER								AVERAGE		20		20		20		20	
NUMBER OF SPECIES PER PLOT								VALUE		8597		8508		8541		7496	
SPECIES								23.0		21		21		11		39	
								%P MC		%C SV		%C SV		%C SV		%C SV	
A1 LAYER																	
1 PICE GLA								25.0 0.3								1 2	
B2 LAYER																	
2 BETU GLA								50.0 23.8				70 2		25 2			
3 SALI MYR								50.0 17.5				30 2		40 2			
4 SALI ATH								25.0 2.5						10 2			
5 SALI DRU								25.0 2.5						10 2			
6 PICE MAR								25.0 0.5						2 2			
C LAYER																	
7 THAL VEN								100.0 5.0		3 2		10 2		1 2		6 2	
8 MERT PAN								100.0 3.5		2 2		7 2		1 2		4 2	
9 DELP GLA								100.0 2.5		3 2		4 2		1 2		2 2	
10 ACHI MIL								100.0 2.0		2 2		4 2		1 2		1 2	
11 FRAG VIR								100.0 2.0		2 2		2 2		1 2		3 2	
12 GALI BOR								75.0 1.5		1 2		3 2				2 2	
13 VALE DIO								50.0 2.0		3 2						5 2	
14 VICI AME								50.0 2.0				7 2		1 2		3 2	
15 EPIL ANG								50.0 1.0						1 2			
16 POLE PUL								50.0 0.8		2 2						1 2	
17 SENE IND								50.0 0.5		1 2						1 2	
18 SOLI CAN								50.0 0.5				1 2		1 2			
19 GEUM TRI								25.0 4.5		18 2							
20 GEUM RIV								25.0 3.0								12 2	
21 ASTE PUN								25.0 1.0								4 2	
22 SMIL STE								25.0 0.8								3 2	
23 STEL LOG								25.0 0.8		3 2							
24 ASTE CON								25.0 0.5								2 2	
25 MITE NUD								25.0 0.5								2 2	
26 PETA SAG								25.0 0.5								2 2	
27 RUBU ARC								25.0 0.5		2 2							
28 CERA SPP								25.0 0.3				1 2					
29 GENT AMA								25.0 0.3				1 2					
30 GEUM ALE								25.0 0.3				1 2					
31 POLY VIV								25.0 0.3								1 2	
32 POTE GRA								25.0 0.3				1 2					
33 SMIL TRI								25.0 0.3								1 2	
34 STEL LON								25.0 0.3								1 2	
35 TARA OFF								25.0 0.3				1 2					
G LAYER																	
36 CARE AQU								75.0 2.0		1 2		5 2				2 2	
37 BROM INE								50.0 6.0		9 2		15 2					
38 AGRO TRA								50.0 3.0		4 2		8 2					
39 ELYM INN								50.0 1.0						3 2			
40 CARE PRA								25.0 1.3				5 2					
41 CARE SCI								25.0 1.0		4 2							
42 CARE SPP								25.0 1.0		4 2							
43 POA PAL								25.0 1.0				4 2					
44 SCHI PUR								25.0 1.0				4 2					

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LEVEL			ZONE		ASSC TYPE		DRY MEADOW-FLUVIAL										RESOURCE INVENTORY			
ECOSYM UNIT			BU		10		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA			
							02:01:08 NOV 22, 1984										TABLE 31 PAGE 2			
PLOT NUMBER			AVERAGE		20		8597		20		8508		20		8541		20		7496	
NUMBER OF SPECIES PER PLOT			VALUE		23.0		21		21		21		11		11		39			
SPECIES			%P		MC		%C		SV		%C		SV		%C		SV		%C	
45	CARE	GYN	25.0	0.5													2	2		
46	POA	COM	25.0	0.5	2	2													1	2
47	CARE	PAP	25.0	0.3															1	2
48	DESC	CES	25.0	0.3															1	2
49	JUNC	BAL	25.0	0.3															1	2
50	LUZU	PAR	25.0	0.3															1	2
51	PHLE	COM	25.0	0.3			1	2												
	D	LAYER																		
52	CLIM	DEN	50.0	2.3	5	2											4	2		
53	SPHA	ANG	25.0	3.0													12	2		
54	SPHA	WAR	25.0	2.5													10	2		
55	AULA	PAL	25.0	2.0													8	2		
56	PLAG	ELL	25.0	1.3			5	2											4	2
57	RRYU	PSE	25.0	1.0															3	2
58	MNIU	AFF	25.0	0.8																
59	BRAC	SPP	25.0	0.3					1	2									1	2
60	HYPN	PRA	25.0	0.3															1	2
61	TOME	NIT	25.0	0.3															1	2

TITLE	BU	10	DRY MEADOW-FLUVIAL	31
PLOT NUMBER	MEAN	20	20	20
TOWNSHIP & RANGE	8597 8508 8541	7496		
MERIDIAN	63 6 6110	6110 59 3		
MAPSHEET	W 6 W 6 W 6			
PHYSIOGRAPHIC SUBREGION	83L 83L 83L	83L		
GEOMORPHIC SYSTEM	7	6		
ECOSECTION				
ELEVATION(MASL)	1206.3	1210 1200 1180	1235	
SLOPE(%)	0.8	2	0	1
ASPECT(DEG)	262			186
ENVIRONMENT/SOILS :				
ECOLOGICAL MOISTURE REGIME	SHG	SHG	SHD	HG
NUTRIENT REGIME	MQ	F	M	F
OVERLYING MATERIAL				
UNDERLYING MATERIAL				
EROSION/DEPOSITION				
SOIL SUBGROUP				
SOIL GREAT GROUP	NW		P	I
SOIL DRAINAGE				
SOLUM THICKNESS(CM)	0.0			
TYPE & DEPTH TO RESTRICT(CM)				
THICKNESS LFH(CM)	0.0			
pH-LFH	0.0			
-A	0.0			
-B	0.0			
-C	0.0			
TEXTURE-A/1				
-B/2				
-C/3				
COARSE FRAGMENTS-B(%)	0.0			
SEEPAGE(*) & MOTTILING(CM)				
ROOTING DEPTH(CM)	0.0			
VEGETATION :				
ASSOCIATION				
STAND AGE(YR)	0.0			
CANOPY HEIGHT(M)	0.0			
MEAN ANNUAL INCREMENT	0.0			
STRATA COVERAGE(%) -A	0.3	0	0	1
-B	43.8	0	90	85
-C	38.8	50	50	50
-G	30.0	50	50	15
-D	10.3	0	1	40
-L	0.0	0	0	0
SURFACE SUBST(%) -DEAD WOOD	1.0	1	1	1
-BEDROCK	0.0	0	0	0
-STONES	0.0	0	0	0
-MIN. SOIL	12.5	0	50	0
-ORGANIC	86.3	99	49	98
-OPEN WATER	0.3	0	0	1
BIOMASS(KG/HA) -FORBS	0.0			
-GRAMINOIDS	0.0			
-BROWSE	0.0			





TITLE :	BU	11	POPULUS TREMULOIDES/SHEPHERDIA CANADENSIS/ASTER CONSPICUUS	20	36
PLOT NUMBER	MEAN	8544	P151		
TOWNSHIP & RANGE		6110	6512		
MERIDIAN		W	6	W	6
MAPSHEET		83L	83L		
		6	12		
PHYSIOGRAPHIC SUBREGION					
GEOMORPHIC SYSTEM					
ECOSECTION					
ELEVATION(MASL)	1157.5	1240	1075		
SLOPE(%)	29.5	11	48		
ASPECT(DEG)		191	175		
ENVIRONMENT/SOILS :					
ECOLOGICAL MOISTURE REGIME		SM	SX		
NUTRIENT REGIME				M	
OVERLYING MATERIAL		L	CV		
UNDERLYING MATERIAL			R1		
EROSION/DEPOSITION		F	F		
SOIL SUBGROUP			O		
SOIL GREAT GROUP			R		
SOIL DRAINAGE		W	W		
SOLUM THICKNESS(CM)	20.0		20		
TYPE & DEPTH TO RESTRICT(CM)			B	50	
THICKNESS LFH(CM)	4.0		4		
pH-LFH	0.0				
-A	7.0		7.0		
-B	0.0				
-C	7.0		7.0		
TEXTURE -A/1			SIL		
-B/2					
-C/3			SIL		
COARSE FRAGMENTS-B(%)	0.0				
SEEPAGE(+) & MOTTILING(CM)					
ROOTING DEPTH(CM)	0.0				
VEGETATION :					
ASSOCIATION					
STAND AGE(YR)	52.0	52			
CANOPY HEIGHT(M)	16.0	19	13		
MEAN ANNUAL INCREMENT	0.0				
STRATA COVERAGE(%) -A	37.5	25	50		
-B	20.0	25	15		
-C	27.5	25	30		
-G	11.5	3	20		
-D	1.0	1	1		
-L	9.5	19	0		
SURFACE SUBST(%) -DEAD WOOD	1.0	2	0		
-BEDROCK	0.0	0	0		
-STONES	0.0	0	0		
-MIN. SOIL	0.0	0	0		
-ORGANIC	49.0	98	0		
-OPEN WATER	0.0	0	0		
BIOMASS(KG/HA) -FORBS	0.0				
-GRAMINOIDS	0.0				
-BROWSE	0.0				

LEVEL			ZONE		ASSC TYPE		PINUS CONTORTA/RHODODENDRON ALBIFLORUM/PLEUROZTIUM SCHREBERI												RESOURCE INVENTORY			
ECOSYM UNIT			SA		1		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)												EDMONTON, ALBERTA NOV 22, 1984 O2:01:08 TABLE 33 PAGE 1			
PLOT NUMBER			AVERAGE VALUE		3G PO53	3G P137	3G P209	3G P215	20 8651	20 8650	20 8648	20 8647	20 4579	20 4584	20 7491	GP 4127	GP 3104	GP 3112	GP 3101			
NUMBER OF SPECIES PER PLOT					%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV			
SPECIES			%P MC																			
A1 LAYER																						
1 PINU CON			100.0 32.8		45 2	30 2	30 2	25 1	52 5	23 2	55 2	37 2	52 2	50 2	42 2	20 3	25 3	40 3	30 3			
2 ABIE LAS			44.4 2.4																			
3 PICE MAR			18.5 0.8		1 2				1 2													
4 PICE ENE			14.8 1.5							23 2												
5 PICE GLA			7.4 0.5		5 2																	
6 PICE ENG			3.7 0.2																			
A2 LAYER																						
PINU CON			88.9 5.0		2 2	5 2	10 2	5 1	1 2	2 2	5 2	3 2	10 2	3 2	4 3	10 3	5 3					
ABIE LAS			48.1 2.2						2 2	3 2	1 2		1 2									
PICE MAR			22.2 0.7			5 2			3 2				1 2									
PICE ENE			22.2 0.5							2 2			1 2									
PICE GLA			11.1 0.1		1 2											1 3			5 2			
PICE ENG			3.7 0.0					1 2														
E LAYER																						
7 HYPO PHY			48.1 1.4														5 3	5 3	5 3			
8 PARM AMB			48.1 1.4														5 3	5 3	5 3			
9 CETR HAL			44.4 1.4														5 3	5 3	5 3			
10 PARM HYP			44.4 1.4														5 3	5 3	5 3			
11 CETR PIN			40.7 0.9														5 3	5 3	5 3			
12 BRYO FUS			33.3 0.6														5 3	5 3	5 3			
13 USNE SOR			29.6 0.8														5 3	5 3	5 3			
14 BRYO FRE			25.9 1.1														5 3	5 3	5 3			
15 USNE ALP			18.5 0.1														5 3	5 3	5 3			
16 PARM SUL			14.8 0.1														5 3	5 3	5 3			
17 USNE SCA			11.1 0.8														5 3	5 3	5 3			
18 CETR MER			11.1 0.1														5 3	5 3	5 3			
19 USNE SUB			11.1 0.1														5 3	5 3	5 3			
20 USNE SPP			7.4 0.2														5 3	5 3	5 3			
21 ALEC SAR			7.4 0.0														5 3	5 3	5 3			
22 EVER MES			7.4 0.0														5 3	5 3	5 3			
23 BRYO SPP			3.7 0.2														5 3	5 3	5 3			
24 BRYO CAP			3.7 0.0														5 3	5 3	5 3			
25 CETR ERI			3.7 0.0														5 3	5 3	5 3			
26 HYPO BIT			3.7 0.0														5 3	5 3	5 3			
27 HYPO TUB			3.7 0.0														5 3	5 3	5 3			
28 LETH VUL			3.7 0.0														5 3	5 3	5 3			
29 PARM ALE			3.7 0.0														5 3	5 3	5 3			
B1 LAYER																						
ABIE LAS			33.3 0.6			1 2	5 2	1 2	1 2	2 2							5 3	5 3	5 3			
PICE MAR			14.8 0.2														5 3	5 3	5 3			
PICE ENE			11.1 0.6														5 3	5 3	5 3			
PINU CON			11.1 0.1														5 3	5 3	5 3			
30 SALI SCO			3.7 0.1														5 3	5 3	5 3			
B2 LAYER																						
31 RHOD ALB			88.9 16.9		35 2	10 2	35 2	50 2	20 2	25 2	15 2	4 2	60 2	3 2	13 2	5 3	10 3	35 3	3 3			
32 LEDU GRO			81.5 5.9			15 2	20 2	5 2	10 2	2 2	2 2	3 2	10 2	3 2	10 2	3 2	5 3	5 3	5 3			
33 VACC MEM			77.8 8.7		5 2	7 2	33 2	20 2	6 2	10 2	11 2	13 2	4 2	9 2	8 2	5 3	5 3	5 3	5 3			





LEVEL		ZONE	ASSC	TYPE	PINUS CONTORTA/RHODODENDRON ALBIFLORUM/PLEUROZIVUM SCHREBERI															RESOURCE INVENTORY									
ECOSYM UNIT					EDMONTON ALBERTA															NOV 22, 1984									
SA		1			02:01:08															TABLE 33									
					VIGOR (V)															PAGE 4									
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S),																													
					3G		3G		3G		20		20		20		20		20		20		20						
AVERAGE					P053	P137	P209	P215	8651	8650	8648	8647	4579	4584	7491	4127	3104	3112	GP	GP	GP	GP	GP	GP					
VALUE																													
NUMBER OF SPECIES PER PLOT					22	21	24	21	19	28	28	31	20	19	27	54	46	47	45										
SPECIES					%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV					
121 CLAD UNC					3.7	0.1																							
122 CLAD CAR					3.7	0.0																							
123 CLAD FIM					3.7	0.0																							
124 CLAD SPP					3.7	0.0																							
125 PELT CAN					3.7	0.0								1	2														





LEVEL			ZONE		ASSC TYPE		PINUS CONTORTA/RHODODENDRON ALBIFLORUM/PLEUROZIUM SCHREBERI												RESOURCE INVENTORY				
ECOSYM UNIT			SA		1		O2:01:08 NOV 22, 1984												EDMONTON, ALBERTA				
							PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 33 PAGE 7																
PLOT NUMBER			GP	GP	GP	GP	3B	FO87	3B	FO88	3B	FO07	3B	F146	3B	FO05	3B	FO67	3B	FO68	20	20	
NUMBER OF SPECIES PER PLOT			37	39	33	33	33	33	38	28	28	28	28	28	28	28	28	33	34	34	24	35	
SPECIES			%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	
76 LIST COR												1	2										
77 PYRO CHL																							
78 TIAR UNI																							
79 CALA STR																							
80 CALA CAN																							
81 ELYM INN																							
82 PLEU SCH	20	3	50	3	20	3	20	2	50	2	30	2	80	2	75	2	40	2	55	2	26	3	1
83 PTIL CRI	10	3	10	3	10	3	60	2	5	2	50	2	10	2	10	2	45	2	35	2			1
84 HYLO SPL	20	3	20	3	20	3	15	2	15	2	15	2	3	2	5	2	10	2	5	2			1
85 DICR FUS	.5	3	.5	3	.5	3			7	2												5	
86 POHL NUT	.5	3	10	3					5	2									1	2		1	
87 POLY JUN	.5	3						1	2	1	2											1	
88 DICR SCO																		1	2	2	2	2	
89 BARB LYC																						12	
90 DICR POL																						1	
91 PTIL PUL	.5	3																				1	
92 AULA PAL																						1	
93 BRAC STA																						2	
94 POLY COM																							
95 DICR FLA																							
96 TETR PEL																						53	
97 DICR ACU																						2	
98 BRAC SAL																							
99 BARB HAT																							
100 DICR BRE																							
101 JAME AUT																							
102 LEPI REP																							
103 TRIT EXS	.5	3																					
L LAYER																							
104 PELT APH																							
105 CLAD MIT	.5	3	.5	3					3	2	2	2	2					5	2	3	2	1	
106 CLAD GRA	.5	3	.5	3	.5	3			15	2								1	2	7	2	2	
107 CLAD ECM									1	2												3	
108 CLAD GON	.5	3	.5	3					4	2												2	
109 PELT MAL									1	2								1	2	1	2	1	
110 CLAD COR	.5	3																					
111 CLAD CEN	.5	3																				1	
112 CLAD CON																						2	
113 CLAD CHL																							
114 CLAD COI			.5	3																			
115 CLAD GRI																							
116 CLAD DEF																							
117 CLAD SQU																							
118 STER TOM																							
119 CLAD PHY																							
120 CETR ISL			.5	3					2	2													



[illegible]

ENVIRONMENT/SOILS-VEGETATION TABLES										PINUS CONTORTA/RHODODENDRON ALBIFLORUM/PLEUROZIDIUM SCHREBERI									
TITLE : SA										RESOURCE INVENTORY TABLE 33									
PLOT NUMBER										3B	3B	3B	3B	3B	3B	3B	3B	20	20
TOWNSHIP & RANGE										FO08	FO07	F146	FO05	FO67	FO68	FO68	FO68	7480	8532
MERIDIAN										W	W	W	W	W	W	W	W	W	W
MAPSHEET										83L	83L	83L	83L	83L	83L	83L	83L	83L	83L
										2	2	2	2	2	2	2	3	5	
PHYSIOGRAPHIC SUBREGION																			
GEOMORPHIC SYSTEM																			
ECOSECTION																			
ELEVATION(MASL)										1590	1400	1520	1400	1500	1480	1840	1740		
SLOPE(%)										2	18	0	6	6	7	8	24		
ASPECT(DEG)										258	275		360	8	160	20	60		
ENVIRONMENT/SOILS :																			
-----																			
ECOLOGICAL MOISTURE REGIME										SM	HG	M	SHG	SHG	SHG	M	SM		
NUTRIENT REGIME										O	SM	O	SM	SM	SM				
OVERLYING MATERIAL										Mgb	Mgb	Mgb	Mgb	Mgb	Mgb	C	X		
UNDERLYING MATERIAL										Mgb									
EROSION/DEPOSITION																			
SOIL SUBGROUP										BR	GLBR	BR	O	BR	O				
SOIL GREAT GROUP										GL	GL	GL	LG	GL	LG				
SOIL DRAINAGE										W	I	W	I	MW	P	MW	W		
SOLUM THICKNESS(CM)										43	60	56	51	63	48				
TYPE & DEPTH TO RESTRICT(CM)										F	21	B	56	W	42	W	24		
THICKNESS LFH(CM)										4	4	6	3	8	10				
PH-LFH																			
-A										4.5	4.5	4.0	4.0	4.0	4.0	4.0			
-B										4.5	4.5	4.0	4.0	4.5	5.0				
-C										5.5				6.0					
TEXTURE-A/1										LS	SIL	SIL	SIL	SIL	SIL	SIL			
-B/2										LS	L	SL	SL	SL	SL	SL			
-C/3										CL			5	1	35				
COARSE FRAGMENT-B(%)										10									
SEEPAGE(*) & MOTTILING(CM)										* 38	8				* 13				
ROOTING DEPTH(CM)										25	47	33	27	42	33				
VEGETATION :																			
-----																			
ASSOCIATION																			
STAND AGE(YR)										13	20	12	20	13	16	112	122		
CANOPY HEIGHT(M)																			
MEAN ANNUAL INCREMENT										15	65	40	70	60	60	35	30		
STRATA COVERAGE(%) -A										55	20	65	75	65	55	20	20		
-B										15	20	12	15	20	20	25	40		
-C																			
-G										0	0	0	0	0	0	0	0		
-D										50	85	94	87	90	90	82	28		
-L										40	2	3	3	7	5	8	22		
-BEDROCK										7	15	5	10	3	5	2	2		
-STONES										0	0	0	0	0	0	0	0		
-MIN. SOIL										0	0	0	0	0	0	0	0		
-ORGANIC										93	85	94	90	97	95	98	98		
-OPEN WATER										0	0	1	0	0	0	0	0		
BIOMASS(KG/HA) - FORBS																			
-GRAMINOIDS																			
-BROWSE																			

LEVEL	ZONE	ASSC TYPE	PICEA ENGELMANNII-ABIES LASIOCARPA/RHODODENDRON ALBIFLORUM												RESOURCE INVENTORY												
			ECOSYM UNIT	SA	2	PRESENCE (%P), MEAN COVER (%C), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)												EDMONTON, ALBERTA NOV 22, 1984 TABLE 34 PAGE 1									
PLOT NUMBER	NUMBER OF SPECIES PER PLOT					AVERAGE VALUE	20 7488	3G 220A	3B F114	3B F006	GP 3113	20 8649	20 7471	20 8503	20 8526												
						%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV												
SPECIES																											
A1 LAYER																											
1 ABIE LAS						66.7	13.8	41	2			15	2	30	2	2	2										
2 PINU CON						66.7	5.0	10	2	2	13	2	3	2		5	2	12									
3 PICE ENG						44.4	6.1	7	2						5	2	12	2									
4 PICE ENE						33.3	8.8				45	3	4	2	2	26	2	17									
5 PICE GLA						22.2	4.7	40	2	2	2	2															
A2 LAYER																											
ABIE LAS						77.8	6.2	10	2	2	4	2	20	2	5	2	10	2									
PINU CON						44.4	2.1	5	2	10	2	1	2		3	2	4	2									
PICE ENG						33.3	1.9	3	2						4	2	10	2									
PICE ENE						33.3	1.8			5	2		1	2													
PICE GLA						11.1	0.6	5	2																		
E LAYER																											
6 PARM HYP						33.3	2.3			15	2	5	2	5	3												
7 PARM AMB						33.3	1.2			5	2	5	2	5	3												
8 HYPO PHY						22.2	1.1			5	2	5	2														
9 CETR HAL						22.2	0.6			5	2				5	3											
10 CETR PIN						22.2	0.6			5	2				5	3											
11 USNE SOR						22.2	0.6			5	2	5	2	5	3												
12 USNE SCA						11.1	1.7			15	2																
13 BRYO FRE						11.1	0.6			5	2																
14 BRYO FUS						11.1	0.6					5	2														
15 BRYO CAP						11.1	0.1								5	3											
16 PARM SUL						11.1	0.1								5	3											
17 RAMA FAS						11.1	0.1								5	3											
18 RAMA THR						11.1	0.1								5	3											
19 USNE ALP						11.1	0.1								5	3											
20 USNE SUB						11.1	0.1								5	3											
B1 LAYER																											
ABIE LAS						77.8	3.6	5	2	1	2	1	2	5	2	15	2	3									
PICE ENE						22.2	0.2							5	3	1	2	2									
PICE ENG						11.1	0.2											2									
21 ALNU CRI						11.1	0.1			1	2																
B2 LAYER																											
22 RHOD ALB						100.0	11.7	20	2	10	2	3	2	25	2	5	10	2									
ABIE LAS						100.0	8.9	10	2	10	2	9	2	7	2	10	2	2									
23 VACC MEM						88.9	10.7	23	2	20	2	3	2	15	2	6	2	11									
24 MENZ FER						33.3	3.0			2	2	5	2	20	3	15	2	2									
25 LEDU GRO						33.3	1.9								5	3											
26 LONI INV						33.3	0.8	1	2	1	2				5	3											
ALNU CRI						22.2	1.9								10	3											
27 RIBE LAC						22.2	0.8			7	2																
28 ROSA ACI						22.2	0.4			2	2																
PICE GLA						22.2	0.3	2	2	1	2				2	3											
29 RIBE OXY						22.2	0.2	1	2						5	3											
30 SORB SCO						22.2	0.2	1	2																		
31 SALI MYR						11.1	0.8			7	2																
32 VIBU EDU						11.1	0.6								5	3											

LEVEL	ZONE	ASSC TYPE
ECOSYM UNIT SA	2	

PICEA ENGELMANNII-ABIES LASIOCARPA/RHOODENDRON ALBIFLORUM

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

PLOT NUMBER	AVERAGE VALUE	20 7488	3G 220A	3B F114	3B FO06	GP 3113	20 8649	20 7471	20 8503	20 8526
NUMBER OF SPECIES PER PLOT	34.7	27	34	52	30	65	28	25	27	24
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV
PICE ENE	11.1 0.2		2 2							
33 SALI SPP	11.1 0.2		1 2							
34 BETU PUM	11.1 0.1									
35 SALI SCO	11.1 0.1					.5 3				
C LAYER										
36 ORTH SEC	100.0 1.1	1 2	1 2	2 2	1 2	.5 3	1 2	1 2	1 2	1 2
37 RUBU PED	88.9 4.4	1 2	4 2	4 2	10 2	10 3	7 2	3 2	1 2	1 2
38 CORN CAN	88.9 2.9	3 2	2 2	8 2	5 2	2 3	1 2	4 2	1 2	1 2
39 LINN BOR	66.7 3.3	1 2	3 2	10 2	5 2	8 3	3 2			
40 VACC VIT	66.7 0.7	1 2	2 2	1 2		.5 3	1 2	1 2		
41 EMPE NIG	55.6 1.3	1 2					1 2	7 2	2 2	2 2
42 LYCO ANN	55.6 0.5	1 2		1 2		.5 3	1 2	1 2	1 2	1 2
43 STRE AMP	44.4 0.7		2 2	1 2	1 2	2 3				
44 PHYL EMP	33.3 2.4							10 2	4 2	8 2
45 ARNI LAT	33.3 1.2	1 2						5 2	2 2	5 2
46 PETA PAL	33.3 1.0		1 2	3 2		.5 3				
47 ARNI COR	33.3 0.8		5 2	2 2		.5 3				
48 EPIL ANG	33.3 0.8		2 2	3 2		2 3				
49 PYRO ASA	33.3 0.3			1 2	1 2	.5 3				
50 EQUI PRA	22.2 3.1			3 2		25 3				
51 MITE NUD	22.2 1.6			6 2		8 3			3 2	
52 VERA ESC	22.2 0.8					.4 3				
53 FRAG VIR	22.2 0.7	1 2	5 2							
54 ARTE NOR	22.2 0.3						2 2	1 2		
55 MATA CAN	22.2 0.3	1 2				2 3				
56 HERA LAN	22.2 0.2		1 2	1 2		.5 3				
57 MERT PAN	22.2 0.2			1 2		.5 3			19 2	
58 LUPI SER	11.1 2.1									
59 VALE SIT	11.1 1.1	10 2								
60 ERIG SPP	11.1 0.6					5 3				
61 RUBU PUB	11.1 0.6					5 3				
62 OSMD CHI	11.1 0.2			2 2		2 3				
63 TIAR UNI	11.1 0.2									
64 ACHI MIL	11.1 0.1			1 2						
65 ACTA RUB	11.1 0.1				1 2	.5 3				
66 ARNI RVD	11.1 0.1									
67 ASTE LAE	11.1 0.1				1 2	.5 3				
68 CORA TRI	11.1 0.1				1 2	.5 3				
69 DELP GLA	11.1 0.1	1 2				.5 3				
70 EQUI ARV	11.1 0.1									
71 GALI BOR	11.1 0.1					.5 3				
72 GALI TRI	11.1 0.1					.5 3				
73 GEUM ALE	11.1 0.1				1 2	.5 3				
74 LIST COR	11.1 0.1	1 2						1 2		
75 MONE UNI	11.1 0.1							1 2		
76 PEDI SPP	11.1 0.1									
77 POLY VIV	11.1 0.1									
78 PYRO CHL	11.1 0.1			1 2						

PLOT NUMBER	AVERAGE		20		3G		3B		3B		GP		20		20		20	
	VALUE	MC	7488	220A	F114	FO06	3113	8649	7471	8503	8526							
NUMBER OF SPECIES PER PLOT																		
SPECIES	%P		%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C	%C
79 SMIL RAC	11.1	0.1										5	3					
80 VIOL ORB	11.1	0.1														1	2	
G LAYER																		
81 ELYM INN	33.3	0.8																
82 CALA CAN	22.2	0.7			5	2	1	2				5	3					
83 CALA STR	11.1	0.1														1	2	
D LAYER																		
84 PLEU SCH	88.9	22.4	39	20	2	2	2	2	20	3	43	2				16	2	60
85 HYLO SPL	77.8	22.6	12	2	75	2	15	2	45	2	20	3	23	2		13	2	13
86 PTIL CRI	77.8	15.0	1	2	5	2	75	2	20	2	20	3	13	2		1	2	1
87 DICR POL	44.4	2.7	7	2											12	2	4	2
88 POLY JUN	44.4	0.6	1	2								1	2		2	2	1	2
89 DICR SCO	33.3	7.7							30	2					9	2	30	2
90 BAZZ TRI	33.3	1.6										5	2	4	2	5	2	
91 DICR FUS	33.3	0.7			1	2					5	3	5	2				
92 POHL NUT	11.1	0.3	3	2														
93 DREP UNC	11.1	0.2																
94 ANAS HEL	11.1	0.1										5	3			2	2	
95 AULA PAL	11.1	0.1	1	2														
96 DICR FLA	11.1	0.1										5	3					
97 PTIL PUL	11.1	0.1										5	3					
L LAYER																		
98 PELT APH	77.8	3.2			1	2	1	2	7	2	10	3	4	2	2	2	4	2
99 CLAD MIT	44.4	0.4	1	2	1	2								1	2	1	2	
100 CLAD ECM	33.3	2.0	1	2										15	2	2	2	
101 PELT MAL	22.2	0.4												2	2	2	2	
102 CLAD GRA	22.2	0.2	1	2									1	2				
103 STER TOM	11.1	0.2												2	2	2	2	
104 CETR ISL	11.1	0.1												1	2			
105 CLAD CAP	11.1	0.1																
106 CLAD CEN	11.1	0.1										5	3					
107 CLAD CON	11.1	0.1										5	3					
108 CLAD COR	11.1	0.1										5	3	1	2			
109 CLAD CRI	11.1	0.1										5	3					
110 CLAD DEF	11.1	0.1												1	2			
111 CLAD PHY	11.1	0.1	1	2														

PLOT NUMBER	TOWNSHIP & RANGE	20	3G	3B	3B	3B	GP	20	20	20	20	20
MEAN	7488	220A	F114	F006	3113	8649	7471	8503	8526			
60 8	6411	58 5	61 3	61 9	6010	6010	6010	6212				
W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6	W 6
83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L	83L
3	12	2	2	2	2	8	6	3	3	5		
PHYSIOGRAPHIC SUBREGION												
GEOMORPHIC SYSTEM												
ECOSECTION												
ELEVATION(MASL)	1517.8	1820	1450	1430	1380	1325	1465	1680	1600	1510		
SLOPE(%)	10.6	38	7	320	2	9	4	12	2	10		
ASPECT(DEG)	174					70	142	4	164	46		
ENVIRONMENT/SOILS :												
ECOLOGICAL MOISTURE REGIME												
NUTRIENT REGIME	M			HG	HG	SHG	SM	SM	M	SHG		
OVERLYING MATERIAL				E	SM	PM						
UNDERLYING MATERIAL	M			MGV	MGb	Mh			X	X		
EROSION/DEPOSITION				S								
SOIL SUBGROUP				O	O	O						
SOIL GREAT GROUP				G	LG	G						
SOIL DRAINAGE	MW			P	P	I	W	W	W	MW		
SOLUM THICKNESS(CM)	39.3			50	64	4						
TYPE & DEPTH TO RESTRICT(CM)				W 22	W 50	W 25						
THICKNESS LFH(CM)	10.0			8	5	17						
pH-LFH	5.9					5.9						
-A	5.8			7.0	4.5							
-B	6.3			8.0	4.5							
-C	7.2			8.0	7.0	6.7						
TEXTURE-A/1				SL	SIL	SIL						
-B/2				L	CL	CL						
-C/3				10								
COARSE FRAGMENTS-B(%)	10.0			*	12	* 35	* 4					
SEEPAGE(*) & MOTTILING(CM)				15	22	12						
ROOTING DEPTH(CM)	16.3											
VEGETATION :												
ASSOCIATION												
STAND AGE(YR)	161.7	255		25	20	112	20	27	18	118		
CANOPY HEIGHT(M)	21.1	20			4.41	4.41						
MEAN ANNUAL INCREMENT	4.4				55	55	40	45	50	45		
STRATA COVERAGE(%) -A	51.1	60	60	50	55	55	35	45	15	25		
-B	36.7	35	50	30	40	35	20	20	45	20		
-C	34.4	40	35	30	20	80	0	0	0	0		
-D	1.4	0	5	2	0	5	0	0	0	0		
-L	75.8	91	99	98	88	70	86	17	60	73		
SURFACE SUBST(%) -DEAD WOOD	6.9	4	2	0	7	10	9	23	0	7		
-BEDROCK	6.1	5	0	8	15	5	15	2	3	2		
-BEDROCK	0.0	0	0	0	0	0	0	0	0	0		
-STONES	0.0	0	0	0	0	0	0	0	0	0		
-MIN. SOIL	0.0	0	0	0	0	0	0	0	0	0		
-ORGANIC	83.9	95	0	92	85	95	95	98	97	98		
-OPEN WATER	0.0	0	0	0	0	0	0	0	0	0		
-BIOMASS(KG/HA) - FORBS	0.0											
-GRAMINOIDS	0.0											
-BROWSE	0.0											

LEVEL		ZONE		ASSC TYPE		PICEA ENGELMANNII-ABIES LASIOCARPA/PHYLLODOCE EMPETRIFORMIS										RESOURCE INVENTORY	
ECOSYM UNIT		SA		3		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA	
						02:01:08 NOV 22, 1984										TABLE 35 PAGE 1	
PLOT NUMBER		AVERAGE VALUE		20		20		20		20		20		20			
				8637		4583		7479									
NUMBER OF SPECIES PER PLOT		19.3		26		10		22									
SPECIES		%P MC		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV			
A1 LAYER																	
1 PICE ENG		33.3	3.3	10	2												
2 ABIE LAS		33.3	0.7	2	2												
B1 LAYER																	
ABIE LAS		66.7	16.7	10	2	40	2										
PICE ENG		66.7	5.3	15	2	1	2										
B2 LAYER																	
ABIE LAS		100.0	15.7	12	2	30	2	5	2								
PICE ENG		66.7	10.3	13	2			18	2								
3 SALI ARC		33.3	3.3	10	2												
4 VACC MEM		33.3	3.0			9	2										
C LAYER																	
5 CASS TET		100.0	19.7	12	2	2	45	2									
6 PHYL EMP		100.0	8.0	10	2	7	2	1	2								
7 GENT GLA		66.7	0.7	1	2												
8 LUPI SER		33.3	3.0	9	2												
9 ARNI LAT		33.3	1.0	3	2												
10 HIER TRI		33.3	1.0					3	2								
11 OXYR DIG		33.3	0.7					2	2								
12 ARTE NOR		33.3	0.3					1	2								
13 PEDI BPA		33.3	0.3	1	2												
14 PETA SAG		33.3	0.3					1	2								
15 POLE SPP		33.3	0.3					1	2								
16 POLY VIV		33.3	0.3	1	2												
17 POTE DIV		33.3	0.3					1	2								
18 SIBB PRO		33.3	0.3					1	2								
19 VACC CAE		33.3	0.3					1	2								
G LAYER																	
20 LUZU PAR		66.7	0.7	1	2			1	2								
21 CARE NIG		33.3	2.0					6	2								
22 JUNC DRU		33.3	0.7					2	2								
23 CARE CON		33.3	0.3			1	2										
24 CARE VAG		33.3	0.3	1	2												
D LAYER																	
25 DICR SCO		100.0	14.3	20	2	12	2	11	2								
26 BAZZ TRI		66.7	25.0			70	2	5	2								
27 DICR BRE		33.3	7.3	22	2												
28 BARB LYC		33.3	3.3	10	2												
29 POLY JUN		33.3	1.0	3	2												
30 TONI COE		33.3	1.0					3	2								
L LAYER																	
31 CLAD ECM		100.0	4.7	6	2	1	2	7	2								
32 CETR ISL		33.3	0.3	1	2												
33 CLAD COR		33.3	0.3	1	2												
34 CLAD MIT		33.3	0.3	1	2												
35 CLAD SOU		33.3	0.3	1	2												
36 LOBA LTN		33.3	0.3	1	2												
37 PELT MAL		33.3	0.3					1	2								

LEVEL

ECOSYM UNIT

SA

ZONE

3

ASSC

TYPE

PICEA ENGELMANNII-ABIES LASIOCARPA/PHYLLODOCE EMPETRIFORMIS

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PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

TABLE 35

PAGE 2

RESOURCE INVENTORY

EDMONTON, ALBERTA

PLOT NUMBER	AVERAGE VALUE	20	20	20
		8637	4583	7479
NUMBER OF SPECIES PER PLOT				
	19.3	26	10	22
SPECIES	%P MC	%C SV	%C SV	%C SV
38 STER TOM	33.3 0.3			1 2

	MEAN	20	20	20
PLOT NUMBER	8637	4583	7479	
TOWNSHIP & RANGE	5813	5814	5814	
MERIDIAN	W	W	W	W
MAPSHEET	83L	83L	83L	83L
PHYSIOGRAPHIC SUBREGION		4	4	4
GEOMORPHIC SYSTEM				
ECOSECTION	1920.0	2040	1840	1880
ELEVATION(MASL)	14.7	28	9	7
SLOPE(%)		34	54	10
ASPECT(DEG)				
ENVIRONMENT/SOILS :				
ECOLOGICAL MOISTURE REGIME		M	SM	SM
NUTRIENT REGIME				
OVERLYING MATERIAL		C	C	
UNDERLYING MATERIAL				
EROSION/DEPOSITION				
SOIL SUBGROUP				
SOIL GREAT GROUP				
SOIL DRAINAGE		MW	W	W
SOLUM THICKNESS(CM)	0.0			
TYPE & DEPTH TO RESTRICT(CM)	0.0			
THICKNESS LFH(CM)	0.0			
PH-LFH	0.0			
-A	0.0			
-B	0.0			
-C	0.0			
TEXTURE-A/1				
-B/2				
-C/3				
COARSE FRAGMENTS-B(%)	0.0			
SEEPAGE(*) & MOTTILING(CM)				
ROOTING DEPTH(CM)	0.0			
VEGETATION :				
ASSOCIATION				
STAND AGE(YR)	125.0	125		
CANOPY HEIGHT(M)	0.0			
MEAN ANNUAL INCREMENT	0.0			
STRATA COVERAGE(%) -A	3.3	10	0	0
-B	46.7	40	80	20
-C	40.0	45	15	60
-G	4.0	1	1	10
-D	53.0	74	85	0
-I	6.7	11	1	8
SURFACE SUBST(%) -DEAD WOOD	1.7	3	2	0
-BEDROCK	0.7	2	0	0
-STONES	0.7	2	0	0
-MIN. SOIL	1.3	1	0	3
-ORGANIC	95.3	92	98	96
-OPEN WATER	0.0	0	0	0
BIOMASS(KG/HA) -FORBS	0.0			
-GRAMINOIDS	0.0			
-BROWSE	0.0			



LEVEL		ZONE		ASSCITY		PINUS CONTORTA/VACCINIUM MEMBRANEUM/RUBUS PEDATUS												RESOURCE INVENTORY					
ECOSYM UNIT		SA		4		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V) TABLE 36												EDMONTON, ALBERTA					
						02:01:08 NOV 22, 1984												PAGE 2					
PLOT NUMBER		AVERAGE VALUE		20		20		20		20		20		20		20		20		20		20	
		25.7		21		8553		8554		8640		8595		5758		5753		4587		4574		8505	
NUMBER OF SPECIES PER PLOT																							
SPECIES		%P MC		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV		%C SV	
30 VACC VIT		73.3	2.5	4	2	9	2	1	2	3	2	3	2	3	2	5	2	3	2	2	2	4	2
31 LYCO ANN		66.7	1.0	3	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
32 LINN BOR		60.0	1.7	1	2	2	2	2	2	2	2	1	2	1	2	1	2	1	2	1	2	1	2
33 EMPE NIG		46.7	2.2	3	2							5	2	9	2	9	2	3	2				
34 ARNI COR		46.7	1.7					1	2	1	2	12	2	4	2								
35 PETA PAL		46.7	0.5					1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
36 ORTH SEC		33.3	0.7	1	2																		
37 VACC CAE		33.3	0.5					1	2			1	2										
38 EQUI SYL		33.3	0.3							1	2												
39 STRE AMP		26.7	0.8					1	2	6	2												
40 EPIL ANG		26.7	0.6							1	2												
41 PYRO ASA		20.0	0.6					5	2														
42 RUBU PUB		13.3	0.3							1	2												
43 ARNI LAT		13.3	0.1																				
44 LIST BOR		13.3	0.1																				
45 ARNI RYD		6.7	0.3																				
46 EQUI PRA		6.7	0.1					1	2														
47 GYMN DRY		6.7	0.1					1	2														
48 MERT PAN		6.7	0.1					1	2														
49 PYRO CHL		6.7	0.1																				
50 TIAR UNI		6.7	0.1					1	2														
G LAYER																							
51 CALA CAN		20.0	0.5							2	2												
52 AGRO TRA		6.7	0.1																				
53 CALA STR		6.7	0.1	1	2																		
54 ELYM INN		6.7	0.1																				
55 POLY JUN		6.7	0.1																				
D LAYER																							
56 PLEU SCH		100.0	33.5	30	2	46	2	23	2	22	2	60	2	57	2	45	2	36	2	9	2	11	2
57 PTIL CRI		100.0	20.5	60	2	17	2	12	2	17	2	10	2	12	2	3	2	8	2	37	2	20	2
58 HVLO SPL		86.7	16.5	21	2	10	2	18	2	47	2	5	2	1	2	5	2	1	2	49	2	41	2
59 DICR SCO		53.3	1.8	1	2					1	2	7	2	8	2	3	2	2	2	2	2	2	2
60 POLY JUN		53.3	1.0							1	2			1	2	1	2	2	2	1	2	1	2
61 SPHA GIR		13.3	1.2																				
62 DICR FUS		6.7	0.3					4	2														
63 LOPH POR		6.7	0.1																				
64 POHL NUT		6.7	0.1																				
L LAYER																							
65 PELT APH		80.0	1.5	2	2	1	2			1	2			1	2	2	2	1	2	4	2	1	2
66 CLAD MIT		53.3	0.9					1	2					3	2	2	2	1	2	3	2	2	2
67 PELT MAL		40.0	0.6	1	2									1	2	2	2	1	2	1	2	1	2
68 CLAD COR		40.0	0.4											1	2	1	2	1	2				
69 CLAD ECM		40.0	0.4											1	2	1	2	1	2				
70 CLAD CHL		26.7	0.3											1	2	1	2	1	2				
71 CLAD DEF		20.0	0.3											2	2	1	2	1	2	1	2	1	2
72 CLAD GRA		20.0	0.3																				
73 CLAD CRI		13.3	0.1					1	2														

LEVEL		ZONE	ASSC TYPE	PINUS CONTORTA/VACCINIUM MEMBRANACEUM/RUBUS PEDATUS																O2:01:08				EDMONTON, ALBERTA				NOV 22, 1984				RESOURCE INVENTORY			
ECOSYM UNIT		SA	4	TABLE 36																PAGE 3				TABLE 36				PAGE 3				PAGE 3			
				PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)																															
				AVERAGE	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
				VALUE	8553	8554	8640	8595	5758	5753	4587	4574	8505	8504	8527	5756	4581	F025	5763																
NUMBER OF SPECIES PER PLOT				25.7	21	15	24	28	26	31	26	31	20	24	22	19	31	37	30																
SPECIES				%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV																
74 CLAD FIM				13.3	0.1					1	2																								
75 STER TOM				13.3	0.1					1	2																								
76 CETR ISL				6.7	0.1																														
77 CLAD COC				6.7	0.1							1	2																						
78 CLAD PYX				6.7	0.1																														
79 CLAD RAN				6.7	0.1					1	2																								
80 CLAD SQU				6.7	0.1							1	2																						
81 CLAD UNC				6.7	0.1							1	2																						



LEVEL			ZONE			ASSC			TYPE			PICEA MARIANA-PINUS CONTORTA/VACCINIUM MEMBRANACEUM												RESOURCE INVENTORY											
ECOSYM UNIT			SA			5						PRESENCE (%P), MEAN COVER (%C), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)												O2:01:08 NOV 22, 1984 EDMONTON, ALBERTA											
PLOT NUMBER			AVERAGE VALUE			7487			20			8642			20			8643			20			8569											
NUMBER OF SPECIES PER PLOT			21.3			21			19			23			22			22			22			22											
SPECIES			%P MC			%C SV			%C SV			%C SV			%C SV			%C SV			%C SV			%C SV											
A1 LAYER																																			
1 PICE MAR			100.0 31.8			30 2			41 2			33 2			23 2			23 2			23 2			23 2											
2 PINU CON			100.0 3.3			2 2			5 2			1 2			5 2			5 2			5 2			5 2											
3 ABIE LAS			50.0 4.0						15 2			1 2			1 2			1 2			1 2			1 2											
A2 LAYER																																			
PICE MAR			100.0 7.5			8 2			5 2			7 2			10 2			10 2			10 2			10 2											
ABIE LAS			50.0 3.5						10 2			4 2			5 2			5 2			5 2			5 2											
PINU CON			25.0 1.3																																
B1 LAYER																																			
PICE MAR			75.0 2.0			5 2						1 2			2 2			2 2			2 2			2 2											
ABIE LAS			25.0 0.3									1 2			1 2			1 2			1 2			1 2											
PINU CON			25.0 0.3																																
B2 LAYER																																			
4 LEDU GRO			100.0 25.0			10 2			15 2			15 2			60 2			60 2			60 2			60 2											
5 VACC MEM			75.0 5.8						5 2			10 2			8 2			8 2			8 2			8 2											
ABIE LAS			50.0 2.0						3 2			5 2			2 2			2 2			2 2			2 2											
PICE MAR			50.0 1.3			3 2			2 2			1 2			2 2			2 2			2 2			2 2											
6 ROSA ACI			50.0 0.8																																
7 VACC MYR			25.0 0.5																																
PINU CON			25.0 0.3																																
C LAYER																																			
8 VACC VIT			100.0 5.0			5 2			4 2			5 2			6 2			6 2			6 2			6 2											
9 CORN CAN			100.0 4.8			3 2			4 2			7 2			5 2			5 2			5 2			5 2											
10 LINN BOR			100.0 1.0			1 2			1 2			1 2			1 2			1 2			1 2			1 2											
11 RUBU PED			75.0 1.0						2 2			1 2			1 2			1 2			1 2			1 2											
12 ARNI COR			25.0 0.3									1 2																							
13 EQUI ARV			25.0 0.3									1 2			1 2			1 2			1 2			1 2											
14 GAUL HIS			25.0 0.3						1 2																										
15 PETA PAL			25.0 0.3												1 2			1 2			1 2			1 2											
16 VACC CAE			25.0 0.3			1 2																													
D LAYER																																			
17 PLEU SCH			100.0 55.0			69 2			60 2			25 2			66 2			66 2			66 2			66 2											
18 PTIL CRI			100.0 18.8			8 2			10 2			50 2			7 2			7 2			7 2			7 2											
19 HYLO SPL			100.0 14.3			5 2			25 2			10 2			17 2			17 2			17 2			17 2											
20 DICR SCO			50.0 1.0			3 2			3 2			1 2			1 2			1 2			1 2			1 2											
21 DICR POL			50.0 0.5						1 2			1 2			1 2			1 2			1 2			1 2											
22 POLY JUN			25.0 0.3			1 2																													
23 SPHA NEM			25.0 0.3						1 2																										
L LAYER																																			
24 PELT APH			75.0 1.8			5 2						1 2			1 2			1 2			1 2			1 2											
25 PELT MAL			50.0 1.0			3 2									1 2			1 2			1 2			1 2											
26 CLAD MIT			50.0 0.5			1 2												1 2			1 2			1 2											
27 CLAD ECM			25.0 0.3			1 2																													
28 CLAD RAN			25.0 0.3			1 2																													
29 STER TOM			25.0 0.3			1 2																													

TITLE :	SA	5	20	20	20	20	20	20	20
PLOT NUMBER	MEAN	7487	8642	8643	8569				
TOWNSHIP & RANGE		60 8	62 7	62 8	62 7				
MERIDIAN		W 6	W 6	W 6	W 6				
MAPSHEET		83L	83L	83L	83L				
PHYSIOGRAPHIC SUBREGION		3	6	6	6				
GEOMORPHIC SYSTEM									
ECOSECTION									
ELEVATION(MASL)	1397.5	1390	1400	1380	1420				
SLOPE(%)	3.0	5	2	2	3				
ASPECT(DEG)		270	110	10	280				
ENVIRONMENT/SOILS :									
ECOLOGICAL MOISTURE REGIME		M	HG	SHG	SHG				
NUTRIENT REGIME									
OVERLYING MATERIAL		X	M	M	M				
UNDERLYING MATERIAL									
EROSION/DEPOSITION									
SOIL SUBGROUP									
SOIL GREAT GROUP		MW	I	MW	I				
SOIL DRAINAGE									
SOLUM THICKNESS(CM)	0.0								
TYPE & DEPTH TO RESTRICT(CM)									
THICKNESS LFH(CM)	0.0								
pH-LFH	0.0								
-A	0.0								
-B	0.0								
-C	0.0								
TEXTURE -A/1									
-B/2									
-C/3									
COARSE FRAGMENTS-B(%)	0.0								
SEEPAGE(*) & MOTTLING(CM)									
ROOTING DEPTH(CM)	0.0								
VEGETATION :									
ASSOCIATION									
STAND AGE(YR)	172.0	16	195	16	149				
CANOPY HEIGHT(M)	18.3			21	20				
MEAN ANNUAL INCREMENT	0.0								
STRATA COVERAGE(%) -A	48.8	40	70	45	40				
-B	30.0	15	20	20	65				
-C	19.5	8	20	25	25				
-G	0.0	0	0	0	0				
-D	91.8	91	91	90	95				
-L	3.3	4	4	1	4				
SURFACE SUBST(%) -DEAD WOOD	5.8	5	5	10	3				
-BEDROCK	0.0	0	0	0	0				
-STONES	0.0	0	0	0	0				
-MIN. SOIL	0.0	0	0	0	0				
-ORGANIC	94.3	95	95	90	97				
-OPEN WATER	0.0	0	0	0	0				
-FORBS	0.0								
-GRAMINOIDS	0.0								
-BROWSE	0.0								



PLOT NUMBER	AVERAGE VALUE	20 8546	20 8625	20 7500	20 8628
NUMBER OF SPECIES PER PLOT	27.0	18	29	38	23
SPECIES	%P MC	%C SV	%C SV	%C SV	%C SV
G LAYER					
35 CALA CAN	25.0 0.3		1 2		
36 CALA STR	25.0 0.3			1 2	
37 ELYM INN	25.0 0.3				1 2
D LAYER					
38 HYLO SPL	100.0 22.0	68 2	7 2	11 2	2 2
39 PLEU SCH	100.0 14.8	14 2	34 2	10 2	1 2
40 PITIL CRI	100.0 7.5	6 2	21 2	1 2	2 2
41 DICR SCO	75.0 1.5	1 2	4 2	1 2	
42 POLY JUN	50.0 2.5		6 2		4 2
43 DICR FUS	25.0 3.5			14 2	
44 AULA PAL	25.0 3.3			13 2	
45 BAZZ TRI	25.0 3.3				
46 POHL NUT	25.0 0.8		3 2		
47 TOME NIT	25.0 0.5			2 2	
48 EURH PUL	25.0 0.3	1 2			
L LAYER					
49 PELT APH	75.0 3.8	3 2	11 2	1 2	
50 CLAD CHL	75.0 0.8	1 2	1 2	1 2	
51 PELT MAL	50.0 0.8		2 2	1 2	
52 CLAD CEN	50.0 0.5		1 2	1 2	
53 CLAD ECM	50.0 0.5		1 2	1 2	
54 CLAD COR	25.0 0.3				
55 CLAD DEF	25.0 0.3		1 2		

PLOT NUMBER	20	20	20	20	20	20
TOWNSHIP & RANGE	8546	8625	7500	8628		
MERIDIAN	W 6	W 6	W 6	W 6		
MAPSHEET	83L	83L	83L	83L		
PHYSIOGRAPHIC SUBREGION	6	4	4	4		
GEOMORPHIC SYSTEM						
ECOSECTION						
ELEVATION(MASL)	1462.5	1580	1490	1360		
SLOPE(%)	6.5	13	12	1		
ASPECT(DEG)	284	326	70			
ENVIRONMENT/SOILS :						
ECOLOGICAL MOISTURE REGIME	M	SHG	M	HG		
NUTRIENT REGIME						
OVERLYING MATERIAL	C	M	O	F		
UNDERLYING MATERIAL						
EROSION/DEPOSITION						
SOIL SUBGROUP						
SOIL GREAT GROUP						
SOIL DRAINAGE	W	MW	W	MW		
SOLUM THICKNESS(CM)	O.O					
TYPE & DEPTH TO RESTRICT(CM)						
THICKNESS LFH(CM)	O.O					
pH-LFH	O.O					
-A	O.O					
-B	O.O					
-C	O.O					
TEXTURE -A/1						
-B/2						
-C/3						
COARSE FRAGMENTS-B(%)	O.O					
SEEPAGE(+) & MOTTILING(CM)						
ROOTING DEPTH(CM)	O.O					
VEGETATION :						
ASSOCIATION						
STAND AGE(YR)	285.0	23		285		
CANOPY HEIGHT(M)	26.5			30		
MEAN ANNUAL INCREMENT	O.O					
STRATA COVERAGE(%) -A	65	45	40	50		
-B	22.5	15	35	25		
-C	21.3	5	35	30		
-G	O.5	O	1	O		
-D	56.3	81	79	10		
-L	6.3	4	16	5		
SURFACE SUBST(%) -DEAD WOOD	12.5	15	10	10		
-BEDROCK	O.O	O	O	O		
-STONES	O.O	O	O	O		
-MIN. SOIL	O.O	O	O	O		
-ORGANIC	10.0	O	O	O		
-OPEN WATER	77.5	85	90	50		
-FORBS	O.O	O	O	O		
BIOMASS(KG/HA) -FORBS	O.O					
-GRAMINOIDS	O.O					
-BROWSE	O.O					

LEVEL	ZONE	ASSC TYPE
ECOSYM UNIT	SA	7
PLOT NUMBER		
NUMBER OF SPECIES PER PLOT		
SPECIES		
A1 LAYER		
1 PINU CON		
2 PICE ENE		
A2 LAYER		
PINU CON		
PICE ENE		
3 POPU BAL		
4 PICE MAR		
E LAYER		
5 BRYO FUS		
6 CETR HAL		
7 CETR PIN		
8 HYPO ENT		
9 HYPO PHY		
10 PARM HYP		
11 PARM SUL		
12 PLAT GLA		
13 USNE ALP		
14 USNE SOR		
15 USNE SUB		
B1 LAYER		
16 ALNU CRI		
PINU CON		
POPU BAL		
PICE ENE		
17 SALI SCO		
B2 LAYER		
18 ROSA ACI		
ALNU CRI		
19 SPIR BET		
PINU CON		
20 VIBU EDU		
21 VACC MEM		
22 JUNI COM		
23 LEDU GRO		
24 RUBU IDA		
25 SHEP CAN		
SALI SCO		
26 ABIE LAS		
27 PICE GLA		
28 VACC MYR		
C LAYER		
29 LINN BOR		
30 ARNI COR		
31 CORN CAN		
32 EPIL ANG		
33 PYRO ASA		
34 VACC VIT		

RESOURCE INVENTORY

EDMONTON, ALBERTA

NOV 22, 1984

O2:01:08

SOCIABILITY (S), VIGOR (V)

TABLE 39

PAGE 1

PINUS CONTORTA/ELYMUS INNOVATUS

PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)

AVERAGE	20	20	20	20	20	20	20	20	20	GP	3G	
VALUE	8519	8509	8549	8502	8548	3110	P054					
27.3	26	18	31	36	27	32	21					
%P	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	%C SV	
MC												
100.0	37.6	57	2	25	2	40	2	45	2	35	2	
14.3	1.4					10	2					
85.7	4.7	3	2	3	2	10	2	5	3	2	2	
14.3	1.0					7	2					
14.3	0.4	3	2									
14.3	0.1									1	2	
14.3	0.1											
14.3	0.1											
14.3	0.1											
14.3	0.1											
14.3	0.1											
14.3	0.1											
42.9	6.6	5	2									
42.9	1.7	1	2	10	2	1	2					
28.6	0.4	2	2									
28.6	0.3			1	2	1	2					
14.3	0.1											
71.4	3.0	7	2	3	2							
57.1	6.0	5	2	15	2	20	2			5	3	3
42.9	2.0	5	2							5	3	4
42.9	1.3	4	2									
42.9	0.9	5	2									
28.6	0.6											
14.3	1.0											
14.3	1.0											
14.3	0.7											
14.3	0.7			5	2							
14.3	0.6											
14.3	0.3											
14.3	0.1											
14.3	0.1											
85.7	3.3	1	2	4	2							
85.7	3.0	3	2	6	2	7	2	4	2	5	3	
71.4	3.7	1	2									
71.4	3.3	7	2									
57.1	3.1	4	2									
42.9	4.3											



PLOT NUMBER	AVERAGE VALUE	20 8519	20 8509	20 8549	20 8502	20 8548	GP 3110	3G P054
NUMBER OF SPECIES PER PLOT	27.3	26	18	31	36	27	32	21
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV
80 CLAD CON	28.6	0.2	1	2			.5	3
81 STER TOM	14.3	0.4			3	2		
82 CLAD CEN	14.3	0.1		1	2			
83 CLAD COR	14.3	0.1			1	2		
84 CLAD CRI	14.3	0.1		1	2			
85 CLAD GRA	14.3	0.1		1	2			
86 CLAD RAN	14.3	0.1				1	2	



[illegible]



[illegible]

LEVEL		ZONE		ASSC TYPE		BETULA GLANDULOSA/CAREX SPP/SPHAGNUM SPP		RESOURCE INVENTORY	
ECOSYM UNIT		SA		8		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)		EDMONTON, ALBERTA	
						TABLE 40		NOV 22, 1984	
						PAGE 4			
PLOT NUMBER						20			
						7486			
NUMBER OF SPECIES PER PLOT						31			
SPECIES						%C SV			
A1 LAYER						---			
1 PICE ENE									
2 PICE MAR									
3 PINU CON						---			
A2 LAYER									
PICE ENE									
PINU CON						---			
B1 LAYER									
PICE MAR									
PICE ENE									
PINU CON						---			
B2 LAYER									
4 BETU GLA						50 2			
5 SALI BAA									
6 SALI GLA									
PICE MAR									
7 SALI BAR						15 2			
8 SALI ATH									
9 SALI MYR						40 2			
10 SALI SPP									
11 SALI PED									
PINU CON						1 2			
12 SALI PLA									
PICE ENE						---			
C LAYER									
13 RUBU ARC						1 2			
14 POLE PUL						2 2			
15 VALE DIO									
16 MITE NUD									
17 POLY VIV									
18 MERT PAN						1 2			
19 DELP GLA						2 2			
20 PETA SAG						3 2			
21 GALI TRI						2 2			
22 GALI BOR									
23 ACHI MIL						2 2			
24 EPIL ANG						1 2			
25 SENE TRI									
26 GEUM TRI						1 2			
27 VACC CAE									
28 EQUIT SCI									
29 OXYC MIC									
30 SENE IND						1 2			
31 VIOL PAL									
32 GEUM ALE									
33 KALM POL									
34 MENY TRI									
35 POTE PAL									

BETULA GLANDULOSA/CAREX SPP/SPHAGNUM SPP				RESOURCE INVENTORY			
PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)				EDMONTON, ALBERTA			
02:01:08 NOV 22, 1984				TABLE 40 PAGE 5			
LEVEL	ZONE	ASSC	TYPE				
ECOSYM UNIT	SA	8					
PLOT NUMBER				20	7486		
NUMBER OF SPECIES PER PLOT				31			
SPECIES				%C	SV		
36	VERO	ALP					
37	EQUI	ARV					
38	PETA	PAL					
39	VIOL	ORB					
40	EQUI	SYL					
41	FRAG	VIR					
42	ORTH	SEC					
43	PENS	PRO		1	2		
44	PYRO	CHL					
45	STEL	LOG					
46	ANEM	PAR					
47	CORN	CAN					
48	LINN	BOR					
49	SOLI	CAN					
50	THAL	VEN					
51	ARNI	CHA					
52	ARNI	COR					
53	ASTE	PUN					
54	CAST	MIN					
55	EPIL	PAL					
56	EQUI	HYE					
57	EQUI	PRA					
58	GALI	LAB					
59	GEUM	RIV					
60	HIER	UMB					
61	PARN	FIM					
62	PEDI	SPP					
63	SELA	SEL					
64	SMIL	TRI					
65	SPIR	ROM					
66	STEL	CAL					
67	VACC	VIT					
68	VIOL	REN					
G LAYER							
69	CARE	AQU		4	2		
70	DESC	CES		4	2		
71	CARE	GYN		1	2		
72	CARE	VAG		3	2		
73	CARE	MIC					
74	CARE	PEN					
75	SCIR	CAE					
76	CALA	CAN					
77	CARE	BRU					
78	AGRO	TRA					
79	ELYM	INN					
80	CALA	STR					
81	ERIO	VIR		1	2		
82	CALA	SPP					

LEVEL		ZONE		ASSC		TYPE		BETULA GLANDULOSA/CAREX SPP/SPHAGNUM SPP		RESOURCE INVENTORY	
ECOSYM UNIT		SA		8				PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)		EDMONTON, ALBERTA	
								O2: 01:08 NOV 22, 1984		TABLE 40 PAGE 6	
PLOT NUMBER								20			
								7486			
NUMBER OF SPECIES PER PLOT								31			
SPECIES								%C SV			
83	TRIS SPI										
84	POA PRA										
85	CARE CHO										
86	CARE DIA										
87	CARE SIC										
88	HIER ODO										
89	LUZU PAR										
90	PHLE COM										
91	POA COM										
	D LAYER										
92	AULA PAL							56	2		
93	TOME NIT							10	2		
94	SPHA WAR										
95	DREP REV										
96	PALU SQU										
97	PLAG ELL										
98	POLY JUN							17	2		
99	HYLO SPL							3	2		
100	SPHA ANG										
101	DICR SCO										
102	PLEU SCH										
103	CLIM DEN										
104	BRYU PSE										
105	CALL GIG										
106	DICR POL										
107	CAMP STE										
108	CATO NIG										
109	DICR UND							2	2		
110	DREP UNC										
111	LOPH BIN										
112	MNIU AFF										
113	POHL NUT										
	L LAYER										
114	PELT APH							2	2		
115	PELT MAL							1	2		
116	GLAD COR										
117	GLAD EGM							1	2		
118	GLAD MIT							1	2		
119	CETR CUC							1	2		
120	GLAD CEN										
121	CLAD CHL							2	2		
122	CLAD GRA										

[illegible]



	MEAN	20	20	3G
PLOT NUMBER	7474	8630	P220	
TOWNSHIP & RANGE	5912	6310	6411	
MERIDIAN	W 6	W 6	W 6	
MAPSHEET	83L	83L	83L	12
PHYSIOGRAPHIC SUBREGION	4			
GEOMORPHIC SYSTEM				
ECOSECTION				
ELEVATION(MASL)	1425.0	1350	1500	1425
SLOPE(%)	1.0	0	2	1
ASPECT(DEG)				310
ENVIRONMENT/SOILS :				
-----				
ECOLOGICAL MOISTURE REGIME		SHG	SHG	HD
NUTRIENT REGIME				SM
OVERLYING MATERIAL		F	M	Ff
UNDERLYING MATERIAL				
EROSION/DEPOSITION				
SOIL SUBGROUP				CU
SOIL GREAT GROUP				F
SOIL DRAINAGE		I	MW	P
SOLUM THICKNESS(CM)	0.0			
TYPE & DEPTH TO RESTRICT(CM)				
THICKNESS LFH(CM)	0.0			
PH-LFH	0.0			
-A	0.0			
-B	0.0			
-C	0.0			
TEXTURE-A/1				
-B/2				
-C/3				
COARSE FRAGMENTS-B(%)	0.0			
SEEPAGE(*) & MOTTILING(CM)				
ROOTING DEPTH(CM)	0.0			
-----				
VEGETATION :				
-----				
ASSOCIATION				
STAND AGE(YR)	0.0			
CANOPY HEIGHT(M)	0.0			
MEAN ANNUAL INCREMENT	0.0			
STRATA COVERAGE(%) -A	0.0	0	0	0
-B	26.0	75	3	0
-C	31.7	30	30	35
-G	26.7	5	40	35
-D	29.3	0	8	80
-L	0.7	0	2	0
SURFACE SUBST(%) -DEAD WOOD	0.7	0	1	1
-BEDROCK	0.0	0	0	0
-STONES	0.0	0	0	0
-MIN. SOIL	6.7	20	0	0
-ORGANIC	92.7	80	99	99
-OPEN WATER	0.0	0	0	0
BIOMASS(KG/HA) -FORBS	0.0			
-GRAMINOIDS	0.0			
-BROWSE	0.0			

LEVEL		ZONE		ASSC		TYPE		SUBALPINE GRASSLAND				RESOURCE INVENTORY			
ECOSYM UNIT		SA		10				PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)				O2:01:08 NOV 22, 1984			
												TABLE 42 PAGE 1			
PLOT NUMBER		AVERAGE		20		20									
		VALUE		7495		7493									
NUMBER OF SPECIES PER PLOT		19.0		22		16									
SPECIES		%P		MC		%C		SV		%C		SV			
B2 LAYER															
1 ROSA ACI		100.0	3.5	5	2	2	2	2	2	2	2	2	2	2	2
2 POPU BAL		50.0	5.0	10	2	10	2	5	2	5	2	5	2	5	2
3 SHEP CAN		50.0	2.5												
C LAYER															
4 ARCT UVA		100.0	15.5	2	2	29	2	2	2	2	2	2	2	2	2
5 OXYT SPL		100.0	3.5	4	2	3	2	4	2	4	2	3	2	4	2
6 SAXI TRI		100.0	2.5	4	2	1	2	4	2	4	2	1	2	4	2
7 HEDY ALP		100.0	1.0	1	2	1	2	1	2	1	2	1	2	1	2
8 DRYA OCT		50.0	9.5	19	2										
9 ASTR STR		50.0	2.0	4	2										
10 ASTE SIB		50.0	1.0	2	2										
11 POTE HOO		50.0	1.0	2	2										
12 ACHI MIL		50.0	0.5			1	2					1	2		
13 ANEM LIT		50.0	0.5									1	2		
14 ANEM PAR		50.0	0.5												
15 ARTE NOR		50.0	0.5	1	2										
16 EPIL ANG		50.0	0.5	1	2										
17 GALI BOR		50.0	0.5			1	2					1	2		
18 GENT CAL		50.0	0.5	1	2										
19 GENT PRP		50.0	0.5									1	2		
20 HABE VIR		50.0	0.5									1	2		
21 MINU BIF		50.0	0.5	1	2										
22 OXYT POD		50.0	0.5									1	2		
23 SOLI NEM		50.0	0.5									1	2		
24 SOLI SPA		50.0	0.5	1	2										
25 ZYGA ELE		50.0	0.5									1	2		
G LAYER															
26 ELYM INN		100.0	3.5	5	2	2	2								
27 DANT CAL		50.0	0.5	1	2										
D LAYER															
28 TORT RUR		50.0	1.5	3	2										
29 THAM SUB		50.0	1.0	2	2										
L LAYER															
30 CETR NIV		50.0	2.5	5	2										
31 PARM CHL		50.0	0.5	1	2										
32 STER TOM		50.0	0.5	1	2										

MEAN	20	20
7495	7493	7493
6010	60	60
W	5	6
83L	83L	83L
3	3	3
PHYSIOGRAPHIC SUBREGION		
GEOMORPHIC SYSTEM		
ECOSECTION		
ELEVATION(MASL)	1755.0	1690
SLOPE(%)	31.5	54
ASPECT(DEG)	210	250
ENVIRONMENT/SOILS :		
ECOLOGICAL MOISTURE REGIME	VX	X
NUTRIENT REGIME		
OVERLYING MATERIAL	R	R
UNDERLYING MATERIAL		
EROSION/DEPOSITION		
SOIL SUBGROUP		
SOIL GREAT GROUP		
SOIL DRAINAGE	R	W
SOLUM THICKNESS(CM)	0.0	
TYPE & DEPTH TO RESTRICT(CM)		
THICKNESS LFH(CM)	0.0	
PH-LFH	0.0	
-A		
-B	0.0	
-C	0.0	
TEXTURE -A/1		
-B/2		
-C/3		
COARSE FRAGMENTS-B(%)	0.0	
SEEPAGE(*) & MOTTILING(CM)		
ROOTING DEPTH(CM)	0.0	
VEGETATION :		
ASSOCIATION		
STAND AGE(YR)	0.0	
CANOPY HEIGHT(M)	0.0	
MEAN ANNUAL INCREMENT	0.0	
STRATA COVERAGE(%) -A	0.0	0
-B	10.0	5
-C	30.0	25
-G	4.0	5
-D	5.0	10
-L	3.5	7
SURFACE SUBST(%) -DEAD WOOD	0.0	0
-BEDROCK	17.5	20
-STONES	22.5	40
-MIN. SOIL	15.0	0
-ORGANIC	45.0	40
-OPEN WATER	0.0	0
-GRAMINOIDS	0.0	0
-BROWSE	0.0	0

LEVEL		ZONE	ASSC	TYPE	ALPINE												O2:01:08 NOV 22, 1984 EDMONTON, ALBERTA TABLE 43 PAGE 1																																																																																																																																			
ECOSYM UNIT					A	1	PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)																																																																																																																																													
PLOT NUMBER					AVERAGE												20																																																																																																																																			
NUMBER OF SPECIES PER PLOT					VALUE												7480												8627												8633												8638												7481																																																																																			
SPECIES					26.2												30												20												21												31												29																																																																																			
					%P												MC												%C												SV												%C												SV												%C												SV																																																											
B2 LAYER																																																																																																																																																				
1 SALI GLA					60.0												4.0																																																																																																																																			
2 SALI RET					20.0												14.0												70												2																																																																																																											
3 SALI BAA					20.0												6.0																																																																																																																																			
4 SALI ARC					20.0												1.0												5												2																																																																																																											
5 SALI BAR					20.0												1.0																																																																																																																																			
C LAYER																																																																																																																																																				
6 ARTE NOR					100.0												7.4												8												2												3												2												1												2												2												2																																			
7 POTE DIV					80.0												2.2												8												2												1												2												1												2												1												2																																			
8 POLY VIV					80.0												2.0												6												2												2												1												2												1												2												1												2																							
9 MYOS ALP					80.0												1.0												1												2												1												2												1												2												1												2												1												2											
10 ACON DEL					80.0												0.8												1												2												1												2												1												2												1												2												1												2											
11 SIBB PRO					60.0												1.4												4												2												1												2																																																																																			
12 THAL VEN					40.0												2.0																																																																																																																																			
13 VALE DIO					40.0												2.0																																																																																																																																			
14 VALE SIT					40.0												2.0																																																																																																																																			
15 TROL ALB					40.0												1.4																																																																																																																																			
16 EPIL LAT					40.0												0.8																																				1												2												3												2												4												2												4												2											
17 RUME ALP					40.0												0.8												1												2																																																																																																											
18 GENT PRP					40.0												0.6												2												2																																																																																																											
19 VERO ALP					40.0												0.6												1												2																																																																																																											
20 EQUI SCI					40.0												0.4																																				1												2																																																																																			
21 ERIG PER					40.0												0.4																																				1												2																																																																																			
22 PEDI BRA					40.0												0.4																																				1												2																																																																																			
23 DRYA OCT					20.0												4.2																																				2												1												2																																																																							
24 EQUI ARV					20.0												2.4																																																																																																																																			
25 OXYR DIG					20.0												1.8																																																																																																																																			
26 PETA SAG					20.0												1.4																																																																																																																																			
27 SILE ACA					20.0												1.0												5												2																																																																																																											
28 SENE TRI					20.0												0.8																																																																																																																																			
29 VACC CAE					20.0												0.8																																																																																																																																			
30 ARNI LAT					20.0												0.4												2												2																																																																																																											
31 ERIG HUM					20.0												0.4																																				2												2																																																																																			
32 HEDY ALP					20.0												0.4																																				2												2																																																																																			
33 MINU OBT					20.0												0.4																																				2												2																																																																																			
34 POTE HOO					20.0												0.4																																				2												2																																																																																			
35 SAXI TRI					20.0												0.4																																				2												2																																																																																			
36 SOLI MUL					20.0												0.4												2												2																																																																																																											
37 ACHI MIL					20.0												0.2																																																																																																																																			
38 CERA ARV					20.0												0.2																																																																																																																																			
39 CERA BEE					20.0												0.2												1												2																																																																																																											
40 DELP GLA					20.0												0.2																																																																																																																																			
41 GENT PRO					20.0												0.2																																				1												2																																																																																			
42 GEOC LIV					20.0												0.2																																																																																																																																			
43 MOEH LAT					20.0												0.2																																																																																																																																			
44 OXYT DEF					20.0												0.2																																																																																																																																			
45 OXYT P00					20.0												0.2																																				1												2																																																																																			
46 PEDI CAP					20.0												0.2												1												2																																																																																																											

LEVEL	ZONE	ASSC	TYPE	ALPINE									
ECOSYM UNIT	A	1		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)									
PLOT NUMBER	AVERAGE VALUE	20 7480	20 8627	20 8633	20 8638	20 7481							
NUMBER OF SPECIES PER PLOT	26.2	30	20	21	31	29							
SPECIES	%P	MC	%C	SV	%C	SV	%C	SV	%C	SV	%C	SV	
47 RANU OCC	20.0	0.2			1	2					1	2	
48 SOLI NEM	20.0	0.2											
G LAYER													
49 POA ALP	60.0	1.8	4	2			1	2	4	2			
50 TRIS SPI	60.0	0.6	1	2			1	2	1	2			
51 LUZU PAR	40.0	0.6					2	2	1	2			
52 PHLE COM	40.0	0.6											
53 CARE TOL	40.0	0.4					1	2	2	2			
54 CARE MAC	20.0	1.0	5	2			1	2	1	2			
55 AGRO TRA	20.0	0.4									2	2	
56 CALA STR	20.0	0.4					2	2					
57 DESC CES	20.0	0.4											
58 CARE ALB	20.0	0.2					1	2					
59 CARE CON	20.0	0.2							1	2			
60 CARE DIA	20.0	0.2					1	2					
61 CARE PEN	20.0	0.2	1	2									
62 LUZU PIP	20.0	0.2	1	2									
D LAYER													
63 POLY JUN	40.0	1.8					1	2	8	2			
64 BRAC ALB	40.0	1.0							1	2	4	2	
65 DICR SPP	20.0	5.6					28	2					
66 AULA PAL	20.0	4.4							22	2			
67 HYLO SPL	20.0	4.4					22	2					
68 PLEU SCH	20.0	2.8					14	2					
69 DREP UNC	20.0	1.0	5	2									
70 THAM SUB	20.0	0.4							2	2			
71 BRAC GRD	20.0	0.2	1	2									
72 BRYU PSE	20.0	0.2					1	2					
73 CETR CUC	20.0	0.2							1	2			
74 DICR SCO	20.0	0.2							1	2			
75 NEPH EXP	20.0	0.2									1	2	
76 PLAG ARI	20.0	0.2	1	2									
77 TORT NOR	20.0	0.2	1	2									
78 TORT RUR	20.0	0.2							1	2			
L LAYER													
79 STER TOM	60.0	1.8	5	2									
80 PELT MAL	40.0	0.6	1	2					3	2			
81 PELT APH	40.0	0.4	1	2							2	2	
82 CERA PUR	20.0	3.8	19	2									
83 CETR NIV	20.0	0.2							1	2			
84 CLAD COR	20.0	0.2	1	2									
85 CLAD ECM	20.0	0.2									1	2	
86 CLAD MIT	20.0	0.2									1	2	
87 LECA RUB	20.0	0.2							1	2			

PLOT NUMBER		20	20	20	20	20	20	20	20
TOWNSHIP & RANGE		7480	8627	8633	8638	7481			
MERIDIAN		5813	5913	5813	5813	5814			
MAPSHEET		W 6	W 6	W 6	W 6	W 6			
PHYSIOGRAPHIC SUBREGION		83L	83L	83L	83L	83L			
GEOMORPHIC SYSTEM		4	4	4	4	4			
ECOSECTION		2052.0	2100	2130	2100	2060	1870		
ELEVATION(MASL)		16.2	22	14	22	14	9		
SLOPE(%)		284	98	180	184	39			
ASPECT(DEG)									
ENVIRONMENT/SOILS :									
ECOLOGICAL MOISTURE REGIME		X	X	X	M	X			
NUTRIENT REGIME									
OVERLYING MATERIAL									
EROSION/DEPOSITION									
SOIL SUBGROUP									
SOIL GREAT GROUP									
SOIL DRAINAGE		R	W	W	W	R			
SOLUM THICKNESS(CM)		0.0							
TYPE & DEPTH TO RESTRICT(CM)		0.0							
THICKNESS LFH(CM)		0.0							
PH-LFH		0.0							
-A		0.0							
-B		0.0							
-C		0.0							
TEXTURE-A/1									
-B/2									
-C/3									
COARSE FRAGMENTS-B(%)		0.0							
SEEPAGE(*) & MOTTILING(CM)									
ROOTING DEPTH(CM)		0.0							
VEGETATION :									
ASSOCIATION									
STAND AGE(YR)		0.0							
CANOPY HEIGHT (M)		0.0							
MEAN ANNUAL INCREMENT		0.0							
STRATA COVERAGE(%) -A		0.0	0	0	0	0	0	0	0
-B		26.0	75	5	10	35	5		
-C		39.0	15	10	40	50	80		
-G		6.2	5	10	1	5	10		
-D		26.6	30	60	15	25	3		
-I		3.6	7	2	6	3	0		
SURFACE SUBST(%) -DEAD WOOD		0.0	0	0	0	0	0		
-BEDROCK		0.6	0	0	0	0	0		
-STONES		3.8	2	1	5	1	10		
-MIN. SOIL		5.0	0	0	25	0	0		
-ORGANIC		90.2	96	99	67	99	90		
-OPEN WATER		0.0	0	0	0	0	0		
BIOMASS(KG/HA) -FORBS		0.0							
-GRAMINOIDS		0.0							
-BROWSE		0.0							

PLOT NUMBER		AVERAGE		3B		3B	
		VALUE		F 124		F 125	
NUMBER OF SPECIES PER PLOT		43.5		55		32	
SPECIES		%P	MC	%C	SV	%C	SV
A1 LAYER							
1	PINU CON	100.0	6.0	10	2	2	2
2	POPU TRE	50.0	0.5	1	1		
B1 LAYER							
	POPU TRE	100.0	20.0	10	1	30	1
	PINU CON	100.0	6.0	10	2	2	2
3	PICE ENE	100.0	1.0	1	2	1	2
B2 LAYER							
	POPU TRE	100.0	30.0	30	1	30	1
	PICE ENE	100.0	1.5	2	2	1	2
	PINU CON	100.0	1.0	1	2	1	2
4	SALI BAR	50.0	3.5			7	2
5	SALI SCO	50.0	1.5	3	2		
6	ABIE LAS	50.0	1.0	2	2		
7	RHOD ALB	50.0	1.0	2	2		
8	SALI GLA	50.0	1.0	2	2		
9	VACC MEM	50.0	1.0	2	2		
10	BETU GLA	50.0	0.5	1	2		
11	LEDU GRO	50.0	0.5	1	2		
12	MENZ FER	50.0	0.5	1	2		
13	POPU BAL	50.0	0.5			1	2
C LAYER							
14	ARCT UVA	100.0	40.0	15	2	65	2
15	ARTE NOR	100.0	5.5	1	2	10	2
16	CORN CAN	100.0	4.5	5	2	4	2
17	SOLI MUL	100.0	4.0	6	2	2	2
18	EPIL ANG	100.0	2.5	1	2	4	2
19	ANTE ROS	100.0	2.0	2	2	2	2
20	CAST MIN	100.0	2.0	2	2	2	2
21	ERIG PER	100.0	2.0	3	2	1	2
22	CAMP ROT	100.0	1.5	1	2	2	2
23	CAST OCC	100.0	1.5	1	2	2	2
24	ACHI MIL	100.0	1.0	1	2	1	2
25	ANTE RAC	100.0	1.0	1	2	1	2
26	FRAG VIR	100.0	1.0	1	2	1	2
27	GENT AMA	100.0	1.0	1	2	1	2
28	LINN BOR	50.0	7.5	15	2		
29	LYCO COM	50.0	2.0	4	2	1	2
30	ARNI COR	50.0	0.5				
31	ARNI LAT	50.0	0.5	1	2		
32	HABE HYP	50.0	0.5	1	2		
33	LYCO CLA	50.0	0.5	1	2		
34	SENE TRI	50.0	0.5	1	2		
35	VACC CAE	50.0	0.5	1	2		
36	VACC VIT	50.0	0.5	1	2		
G LAYER							
37	ELYM INN	100.0	6.0	2	2	10	2
38	TRIS SPI	100.0	2.0	3	2	1	2

LEVEL		ZONE		ASSC TYPE		PINUS CONTORTA-POPULUS TREMULOIDES/ARCTOSTAPHYLOS UVA-URSA										RESOURCE INVENTORY			
ECOSYM UNIT		MO		1		PRESENCE (%P), MEAN COVER (MC), PERCENT COVER (%C), SOCIABILITY (S), VIGOR (V)										EDMONTON, ALBERTA			
						02:01:08 NOV 22, 1984										TABLE 44 PAGE 2			
PLOT NUMBER		AVERAGE VALUE		3B F124		3B F125													
NUMBER OF SPECIES PER PLOT		43.5		55		32													
SPECIES		%P MC		%C SV		%C SV													
39 CALA CAN		50.0 0.5				1 2													
40 FEST SAX		50.0 0.5				1 2													
41 POLY PIL		50.0 3.5		7 2															
42 EURH PUL		50.0 1.5		3 2															
43 BRAC GRO		50.0 1.0		2 2															
44 THUI ABI		50.0 1.0				2 2													
45 POLY JUN		50.0 0.5		1 2															
46 PELT MAL		100.0 6.0		10 2		2 2													
47 CLAD GRA		50.0 2.0		4 2															
48 CETR HAL		50.0 1.5		3 2															
49 CLAD COC		50.0 1.5		3 2		2 2													
50 CLAD CHL		50.0 1.0		2 2															
51 CLAD COR		50.0 1.0		2 2															
52 CLAD DEF		50.0 1.0		2 2															
53 CLAD MIT		50.0 1.0		2 2															
54 PELT CAN		50.0 1.0		2 2															
55 STER TOM		50.0 1.0		2 2															
56 CLAD GON		50.0 0.5		1 2															
57 CLAD PYX		50.0 0.5				1 2													
58 PELT APH		50.0 0.5		1 2															

## ENVIRONMENT/SOILS-VEGETATION TABLES

TITLE :

MO 1

PINUS CONTORTA-POPULUS TREMULOIDES/ARCTOSTAPHYLOS UVA-URSA

TABLE 4.4

MEAN	3B	3B
F 124	F 125	
58 7 58 7	W 6 W 6	
83E 83E	15 15	
PHYSIOGRAPHIC SUBREGION		
GEOMORPHIC SYSTEM		
ECOSECTION		
ELEVATION(MASL)	1535.0 1540	1530
SLOPE(%)	34.0	22 46
ASPECT(DEG)		160 216
ENVIRONMENT/SOILS :		
ECOLOGICAL MOISTURE REGIME	SX	SX
NUTRIENT REGIME	M	M
OVERLYING MATERIAL	Cv	Mv
UNDERLYING MATERIAL	Mv	P
EROSION/DEPOSITION		
SOIL SUBGROUP	E	E
SOIL GREAT GROUP	DYB	DYB
SOIL DRAINAGE	W	W
SOLUM THICKNESS(CM)	62.0	64 60
TYPE & DEPTH TO RESTRICT(CM)	B 64	B 70
THICKNESS LFH(CM)	4.5	1 8
PH-LFH	0.0	4.0
-A	4.0	4.0
-B	4.5	4.5
-C	4.8	4.5
TEXTURE-A/1	LS	SIL
-B/2	S	SIL
-C/3	LS	LS
COARSE FRAGMENTS-B(%)	12.5	0 25
SEEPAGE(*) & MOTTILING(CM)		
ROOTING DEPTH(CM)	48.5	52 45
VEGETATION :		
ASSOCIATION	MO 1	MO 1
STAND AGE(YR)	31.0	30 32
CANOPY HEIGHT(M)	5.0	5 5
MEAN ANNUAL INCREMENT	0.5	0.5
STRATA COVERAGE(%) -A	6.5	11 2
-B	57.5	55 60
-C	62.5	45 80
-G	3.5	5 2
-D	23.5	45 2
-L	17.5	30 5
SURFACE SUBST(%) -DEAD WOOD	3.5	5 2
-BEDROCK	1.0	2 0
-STONES	2.5	5 0
-MIN. SOIL	7.5	15 0
-ORGANIC	85.5	73 98
-OPEN WATER	0.0	0 0
BIOMASS(KG/HA) -FORBS	163.0	128 198
-GRAMINOIDS	31.5	2 61
-BROWSE	41.0	41



LEVEL | ZONE | ASSC | TYPE  
ECOSYM UNIT | MO | 2 |

POPULUS TREMULOIDES/ROSA ACICULARIS/ELYMUS INNOVATUS

RESOURCE INVENTORY  
EDMONTON, ALBERTA  
NOV 22, 1984  
O2:01:08  
TABLE (V) VIGOR (V)  
PAGE 2

PRESENCE (%P)		MEAN COVER (MC)		PERCENT COVER (%C)		SOCIALITY (S)		VIGOR (V)	
AVERAGE VALUE		GC 3916		GC 3924		FO09		FO11	
%P MC		%C SV		%C SV		%C SV		%C SV	
NUMBER OF SPECIES PER PLOT		3B		3B		3B		3B	
SPECIES		F018		F112		F140			
31 GALI BOR	71.4 0.9	.2 3	.2 3			2 2	2 2	2 2	2 2
32 GERA RIC	57.1 3.0	.7 3	.7 3			10 2	7 2	3 2	3 2
33 SMIL STE	57.1 1.5	2 2	2 2			5 2	5 2		
34 MERT PAN	42.9 4.6	8 3	8 3			12 2	12 3		
35 HERA LAN	42.9 3.6	8 3	8 3			1 1	3 2	2 2	2 2
36 ACHI MIL	42.9 0.9			3 2	3 2	7 2	2 2	1 2	1 2
37 PETI PAL	42.9 0.9					5 2	2 2	3 2	3 2
38 VACC CAE	28.6 1.3					5 2	2 2	3 2	3 2
39 CORN CAN	28.6 1.1					5 2	2 2	3 2	3 2
40 LINN BOR	28.6 1.1					5 2	2 2	3 2	3 2
41 HEDY ALP	28.6 1.0					2 2	2 2	5 2	5 2
42 ACTA RUB	28.6 0.4			.7 3	.7 3				
43 MITE NUD	28.6 0.3			.2 3	.2 3				
44 VIOL CAN	28.6 0.3			.2 3	.2 3				
45 THAL OCC	14.3 1.1			8 3	8 3				
46 RUBU PAA	14.3 1.0					7 2	5 2		
47 RUBU PUB	14.3 0.7								
48 ASTE SPP	14.3 0.6								
49 LATH VEN	14.3 0.4			3 2	3 2				
50 DISP TRA	14.3 0.3	2 4	2 4						
51 STEL LON	14.3 0.3					2 2	2 2		
52 VALE DIO	14.3 0.3							1 2	1 2
53 CAMP ROT	14.3 0.1								
54 CAST MIN	14.3 0.1					1 2	1 2		
55 CERA ARV	14.3 0.1					1 2	1 2		
56 DRAB AUR	14.3 0.1					1 2	1 2		
57 EQUI ARV	14.3 0.1	.7 3	.7 3						
58 GENT AMA	14.3 0.1					1 2	1 2		
59 MAIA CAN	14.3 0.1							1 2	1 2
60 RUBU ARC	14.3 0.1								
61 TARA OFF	14.3 0.1					1 2	1 2		
62 VIOL ADU	14.3 0.1					1 2	1 2		
63 VIOL SPP	14.3 0.1	.7 3	.7 3						
64 CLEM OCC	14.3 0.0	.2 3	.2 3						
G LAYER									
65 ELYM INN	71.4 10.0			15 2	10 2	5 2	10 2	30 2	30 2
66 CALA CAN	14.3 2.6			18 3	18 3				
67 CALA INE	14.3 1.4					10 2	10 2		
68 CALA STR	14.3 0.7					5 2	5 2		
D LAYER									
69 EURH PUL	42.9 2.0			3 2	3 2			1 2	10 2
70 BRAC SAL	42.9 1.5	.2 3	.2 3			5 2	5 2	2 2	2 2
71 PLEU SCH	28.6 0.7			3 2	3 2				
72 PTIL CRI	28.6 0.3			1 2	1 2				
73 HYLO SPL	14.3 0.3								
74 DREP UNC	14.3 0.1			1 2	1 2				
75 PLAG ELL	14.3 0.1			1 2	1 2				
76 PLAG MED	14.3 0.1			1 2	1 2				



TITLE :		MO		2		POPULUS TREMULOIDES/ROSA ACICULARIS/ELYNUS INNOVATUS		TABLE 45	
PLOT NUMBER		GC		GC		3B		3B	
TOWNSHIP & RANGE		3916 3924		F009		F011 F018 F112		F140	
MERIDIAN		57 8		57 6		57 7		57 6	
MAPSHEET		83E		83E		83E		83E	
PHYSIOGRAPHIC SUBREGION		14		15		15		15	
GEOMORPHIC SYSTEM		1060		1310		1150		1100	
ECOSECTION		30		12		3		4	
ELEVATION(MASL)		120		164		354		182	
SLOPE(%)		21.6		3		4		20	
ASPECT(DEG)		120		164		354		182	
ENVIRONMENT/SOILS :									
ECOLOGICAL MOISTURE REGIME		SM		M		SM		M	
NUTRIENT REGIME		SM		M		E		PM	
OVERLYING MATERIAL		M		M		GFTv		Ft	
UNDERLYING MATERIAL		O		O		O		BR	
EROSION/DEPOSITION		EB		EB		MB		GL	
SOIL SUBGROUP		W		MW		W		MW	
SOIL GREAT GROUP		43.7		54		42		45	
SOLUM THICKNESS(CM)		6.9		5		15		2	
TYPE & DEPTH TO RESTRICT(CM)		6.1		6.3		5.9		8.0	
THICKNESS LFH(CM)		6.5		6.1		6.1		6.5	
pH-LFH		6.4		5.9		6.1		6.5	
-B		7.1		7.4		6.5		8.0	
-C		L		CL		LS		SL	
TEXTURE-A/1		CL		CL		LS		SL	
-B/2		CL		CL		LS		SL	
-C/3		CL		CL		LS		SL	
COARSE FRAGMENTS-B(%)		20.0		42		40		18	
SEEPAGE(*) & MOTTILING(CM)		45.3		103		42		40	
ROOTING DEPTH(CM)									
VEGETATION :									
ASSOCIATION		MO 2		MO 2		MO 2		MO 2	
STAND AGE(YR)		64		68		22		17	
CANOPY HEIGHT(M)		17.0		12		22		18	
MEAN ANNUAL INCREMENT		2.8		3.5		70		35	
STRATA COVERAGE(%) -A		64.3		90		40		20	
-B		22.1		8		20		35	
-C		48.1		17		40		80	
-G		20.4		43		15		15	
-D		4.7		1		5		1	
-L		0.0		0		0		0	
SURFACE SUBST(%) -DEAD WOOD		2.1		1		5		0	
-BEDROCK		0.0		0		0		0	
-STONES		0.0		0		0		0	
-MIN. SOIL		0.0		0		0		0	
-ORGANIC		97.9		99		95		100	
-OPEN WATER		0.0		0		0		0	
BIOMASS(KG/HA) -FORBS		570.7		319		931		462	
-GRAMINOIDS		284.3		264		351		238	
-BROWSE		10.0		7		13			



ECOSYSTEMATIC UNITS											
MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW
1	2	3	4	5	6	7	8	9	10	11	
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
BRAC ALB											
BRAC CAM											
BRAC GRO											
BRAC HYL											
BRAC LEI											
BRAC MIL											
BRAC SAL	II 0.4	III 0.5	I 0.1								
BRAC SPP	I 0.0		I 0.1								
BRAC STA	I 0.3		I 0.1								
BROM INE											
BRYO CAP											
BRYO FRE											
BRYO FUR											
BRYO FUS											
BRYO SPP											
BRYU PSE	I 0.0										
CALA CAN	II 0.3										
CALA INF											
CALA SPP											
CALA STR	III 1.9	III 0.7	I 0.2 IV 1.1	II 0.3 III 0.5	I 0.2 IV 1.6	I 0.2	I 0.1	II 0.3	II 0.3	II 0.8	
CALL GIG											
CAMP HIS											
CAMP LAS											
CAMP ROT											
CAMP STE											
CARE ALB											
CARE AQU											
CARE BRU											
CARE CAP											
CARE CHO	I 0.0								I 0.3		
CARE COC											
CARE CON											
CARE DIA											
CARE DIS											
CARE GYN											
CARE MAC											
CARE MIC											
CARE NIG											
CARE PAP											
CARE PAU											
CARE PEN											
CARE PRA											
CARE ROS											
CARE ROT											
CARE SCI											
CARE SIC											
CARE SPP											
CARE TEN	I 0.1										II 6.3 I 0.3
CARE TOL											III 1.0
CARE VAG											



ECOSYSTEMATIC UNITS	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW
	1	2	3	4	5	6	7	8	9	10	11		
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE													
SPECIES													
DLP GLA													
DESC CES													
DICR ACU													
DICR BRE													
DICR FLA													
DICR FRA													
DICR FUS													
DICR POL													
DICR SCD	I 0.0												
DICR SPP													
DICR UND	I 0.1												
DISP TRA	I 0.1												
DRAB AUR													
DREP REV													
DREP UNC	I 0.1												
DRYA OCT													
DRYA CAR													
ELYM INN	III 2.1	V 4.7	II 0.8	IV 1.0									
EMPE NIG													
EPIL ANG	IV 4.1	V 7.8	III 3.3	II 0.3	V 8.8								
EPIL CIL													
EPIL LAT													
EPIL PAL													
EQUI ARV	I 0.1												
EQUI HYE													
EQUI PRA	II 0.3	II 0.3	II 0.5	III 1.0									
EQUI SCI	I 0.1												
EQUI SYL	III 0.4	II 0.3	II 0.3		II 0.4								
ERIG HUM													
ERIG PER													
ERIG SPP													
ERIO VAG													
ERIO VIR													
EURH PUL	I 0.1												
EVER MES													
FEST SAX	V 1.4	IV 0.7	III 0.9		II 0.4								
FRAG VIR													
GALI BOR	V 0.9	IV 0.7	IV 0.8	V 1.0	III 0.6	II 0.3							
GALI LAB													
GALI TRI	I 0.1				I 0.2								
GAUL HIS													
GENT AMA													
GENT CAL													
GENT GLA													
GENT PRO													
GENT PRP													
GEOC LIV													
GEOC LIV													

ECOSYSTEMATIC UNITS	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	MW 11
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
GERA RIC											
GERA VIS											
GEUM ALE											
GEUM RIV											
GEUM SPP											
GEUM TRI											
GLYC STR						I 0.2					I 0.2
GOOD OBL	I 0.0				I 1.0			II 0.7		I 0.2	
GYMN DRY	I 0.0		I 0.3								
HABA ORB											
HABA HYP											
HABA OBT											
HABA VIR											
HALE DEF											
HEDY ALP											
HEDY SUL											
HELO BLA											
HERA LAN											
HIER ODO					I 0.2						
HIER TRI	I 0.1										
HIER UMB											
HYLO SPL	I 0.1										
HYPN PRA	III 2.3	I 0.2	I 0.2			I 0.2	V 7.1	V 5.0	I 0.1 V 22.3	V 11.2	V 33.3
HYPO AUS											
HYPO BIT											
HYPO ENT											
HYPO PHY						I 0.1					
HYPO TUB											
ICMA ERI											
JAME AUT											
JUNC BAL											
JUNC DRU											
JUNI COM											
KALM POL											
KOBR MYO											
LARI LAR											
LATH OCH	V 2.0	V 2.5	III 1.4	IV 1.3	V 1.4	II 0.3 II 0.7	I 0.1 I 0.1	IV 0.7	I 0.1	II 0.4	II 1.3
LATH VEN											
LECA RUB											
LEDU GRO	I 0.3						IV 13.4		V 7.9		V 20.7
LEPI REP											
LEPT PYR											
LETH VUL											
LILI PHI											
LINN BOR	IV 1.6	I 0.2 V 3.7	III 1.6	V 3.3	III 1.2	IV 4.0	V 2.9	V 3.0	V 1.1	V 4.8	V 1.3
LIST BOR											



## ECOSYSTEMATIC UNITS

MW	1	2	3	4	5	6	7	8	9	10	11
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## SPECIES

## PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE

PALU SOU											
PARM ALE						I 0.1					
PARM AMB											
PARM CHL											
PARM HYP											
PARM SUL											
PARM FIM											
PARN PAL											
PARN PAL											
PEDI BRA											
PEDI CAP											
PEDI LAB											
PEDI PAR											
PEDI SPP											
PELT APH	I 0.1		I 0.3			II 0.3	V 2.0		III 1.3	II 1.2	III 0.8
PELT CAN	I 0.0		II 0.3			I 0.3			I 0.4	I 0.3	
PELT MAL	I 0.1					III 0.4	I 0.1		I 0.1		
PELT POL											
PENS PRO											
PETA PAL	IV 1.3	I 0.2	III 0.8	IV 0.8	III 0.6		II 0.4	II 0.3	II 0.4	III 0.6	IV 0.8
PETA SAG											
PHLE COM											
PHYL EMP											
PHYS ADS											
PICE ENE											
PICE ENG											
PICE GLA											
PICE MAR	III 1.3	IV 1.0	II 0.5	IV 2.8	I 1.0	II 1.7	II 0.4	V 1.7	V 23.6	V 29.0	II 1.0
PINU BAN	I 0.0		I 0.1			I 2.5	III 5.7		I 2.0	V 25.0	
PINU CON	I 0.6	II 2.5	I 0.1			V 24.2	V 30.0	V 35.0	V 9.6		I 0.8
PLAD MED	I 0.0										
PLAG ART											
PLAG CUS											
PLAG DRU			II 0.3								
PLAG ELL	I 0.1									II 2.8	
PLAG LAE											
PLAG MED	I 0.1										
PLAT GLA											
PLEU SCH	II 1.3		I 0.5			V 4.1	V 62.4	V 7.0	V 50.0	V 20.0	V 24.2
POA ALP											
POA COM											
POA PAL											
POA PRA											
POHL NUT											
POLE PUL											
POLE SPP											
POLY COM											
POLY JUN	I 0.1	I 0.2				II 0.3	I 0.1				
POLY PIL	I 0.0										
POLY STR											
POLY VIV											
POPU BAL	III 3.9	I 0.2	V 23.0	III 2.5	III 11.0		II 0.3			I 0.4	I 0.2

## SUMMARY VEGETATION TABLE

## RESOURCE INVENTORY

EDMONTON, ALBERTA  
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ECOSYSTEMATIC UNITS	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	MW 11
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
POPUL TRE	V 44.4	V 37.5	V 23.8	V 40.0	V 26.0	IV 1.2	III 0.6	IV 2.3	I 0.1	IV 2.8	
POTE DIV											
POTE GRA											
POTE HOO											
POTE PAL											
PRUN PEN	I 0.2			II 0.8 IV 2.0							
PRUN VIR											
PTIL CIL											
PTIL CRI	I 0.1	I 0.2	I 0.3		I 0.2	III 0.4	IV 6.3	V 4.3	V 12.1	V 18.0	IV 10.0
PTIL PUL											
PYLA POL											
PYRO ASA	IV 1.3	V 2.3	III 1.3	III 0.8	III 0.8	I 0.2	I 0.1	V 1.3	I 0.1	I 0.6	
PYRO CHL						II 0.3					
PYRO MIN	I 0.1										
RAMA FAS											
RAMA THR											
RANU OCC											
RHIZ GRA	I 0.0										
RHIZ PSE											
RHOD ALB											
RHYT TRI											
RIBE AME											
RIBE HIR											
RIBE INE											
RIBE LAC					I 0.2			II 0.3		I 0.2	I 0.2
RIBE OXY	I 0.1		II 0.8	III 0.5							
RIBE SPP	I 0.2			II 0.3							
RIBE TRI	I 0.0		I 0.2						I 0.1	I 0.2	
ROSA ACI	V 12.7	V 7.2	V 9.3	V 14.5	V 9.2	V 2.7	V 3.1	V 4.0	V 1.4	IV 3.8	IV 1.2
RUBU ACU											I 0.2
RUBU ARC											
RUBU CHA											
RUBU IDA	II 0.9	I 0.2	III 2.4	III 1.8	I 0.4			IV 1.0		I 0.2	I 0.2
RUBU PAA					V 22.6						
RUBU PAR											
RUBU PED	I 0.2										
RUBU PUB	V 2.0	III 1.0	V 1.9	V 3.5	IV 1.8						
RUBU STR				II 0.5							
RUME ALP											
SALI ARC											
SALI ATH											
SALI BAA											
SALI BAR											
SALI BEB							III 0.4				
SALI CAN	I 0.6		I 0.3	II 0.3	I 0.6						
SALI DIS	I 0.0			II 0.3							
SALI DRU	I 0.0										
SALI FAR											
SALI GLA	I 0.2	I 0.2				I 0.2		II 0.7	I 0.1		

ECOSYSTEMATIC UNITS	MW	1	MW	2	MW	3	MW	4	MW	5	MW	6	MW	7	MW	8	MW	9	MW	10	MW	11
SPECIES	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE																					
SALI LUC						I 0.1															II 0.3	
SALI MEL																		I 0.3				
SALI MYR																					II 1.0	
SALI OCC																						
SALI PED																						
SALI PLA																						
SALI PYR																						
SALI RET																						
SALI SCO	I 0.1	I 0.2																				
SALI SPP	I 0.4	I 0.8	I 0.1	II 0.3	II 0.3							I 0.3				II 0.3	II 0.3	I 0.1			I 0.3	
SALI STO																						
SAMB RAC																						
SAXI TRI																						
SCCHI PUR	I 0.0																					
SCGIR CAE																						
SELA SEL																						
SENE IND																						
SENE PAU																						
SENE TRI																						
SHEP ARG	I 0.0																					
SHEP CAN	IV 7.5	III 7.8	II 1.2																			
SIBB PRO																						
SILE ACA	I 0.1	II 0.3	III 0.9	II 0.3	IV 3.8																	
SMIL RAC																						
SMIL STE																						
SMIL TRI																						
SOLI CAN																						
SOLI MUL																						
SOLI NEM																						
SOLI SPA	I 0.0																					
SOLI SPP																						
SORR SCO																						
SPHA ANG																						
SPHA FUS																						
SPHA GIR																						
SPHA MAG																						
SPHA NEM																						
SPHA RUS																						
SPHA TER																						
SPHA WAR																						
SPIR BET	III 2.8	V 7.5	II 0.7																			
SPIR ROM			I 0.1																			
SPLA SPH																						
STEL CAL																						
STEL LOG																						
STEL LON																						
STEL MED																						
STEN OCC																						
STER TOM																						
STRE AMP																						
STRE ROS																						

ECOSYSTEMATIC UNITS	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE										
	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	MW 11
SPECIES											
SYMP ALB	II 0.7	I 0.2	II 0.7	IV 1.0	I 0.2					I 0.2	
TARA OFF											
TETR ANG											
TETR MNI											
TETR PEL											
THAL OCC				II 0.3	I 1.2						
THAL VEN	I 0.2	I 0.2									
THAM SUB											
THUT ABI											
THUI REC											
TIAR TRI											
TIAR UNI											
TIMM AUS											
TOME NIT											II 0.7
TONI COE											
TORT NOR											
TORT RUR											
TRIS SPI											
TRIT EXS											
TROL ALB											
USNE ALP						I 0.1					
USNE CAV											
USNE GLA						I 0.1					
USNE SCA						I 0.1					
USNE SOR											
USNE SPP											
USNE SUB											
VACC CAE	II 0.6	II 3.3	I 0.1				II 0.3	III 1.4			I 0.3
VACC MEM							I 0.3				
VACC MYR	I 0.9	III 0.8				V 7.3	V 4.4	V 2.0			
VACC MYT											
VACC VIT	I 0.1					V 10.3	V 2.9		IV 0.9	I 0.2	V 1.2
VALE DIO	I 0.1		II 0.5	II 0.3					I 0.1		
VALE SIT											
VERA ESC											
VERO ALP											
VERO SER											
VIBU EDU	V 8.0	IV 5.5	V 10.6	V 4.5	V 9.4	I 0.2	I 0.1	V 4.7	I 0.1	IV 3.8	
VICI ANE	III 0.6	II 0.5	II 0.3	II 0.3	I 0.2						
VIOI ADU											
VIOI CAN	I 0.2		II 0.5	III 1.3	I 0.4						
VIOI NEP											
VIOI ORB											
VIOI PAL											
VIOI REN											
VIOI RUG	III 0.5		III 0.4					V 1.0		IV 0.8	
VIOI SPP											

ECOSYSTEMATIC UNITS	MW	1	MW	2	MW	3	MW	4	MW	5	MW	6	MW	7	MW	8	MW	9	MW	10	MW	11
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SPECIES PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE

ZYGA ELE																						
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ECOSYSTEMATIC UNITS		MW	MW	BF	BF	BF	BF	BF	BF	BF	BF	BF	BU
		12	13	1	2	3	4	5	6	7	8		1
SPECIES													
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE													
CASS TET					II 0.8			I 0.1					
CAST MIN													
CAST OCC													
CATO NIG													
CERA ARV													
CERA BEE													
CERA PUR				I 0.0									
CERA SPP													
CETR ARE				I 0.0			I 0.2						
CETR CHL													
CETR CUC													
CETR ERI							I 0.1	I 0.1					
CETR HAL				I 0.0		I 0.1	II 0.9					III 1.8	
CETR ISL												I 0.1	
CETR MER													
CETR NIV				I 0.1		II 0.1	II 0.9					I 0.1	
CETR PIN												III 1.8	
CLAD CAP				I 0.0								I 0.1	
CLAD CAR				I 0.1		II 0.1	I 0.1	I 0.0		III 1.0			
CLAD CEN													
CLAD CHL		I 0.2		I 0.0		II 0.1	I 0.1	I 0.0					
CLAD GOC				I 0.1			I 0.1	I 0.0					
CLAD COI							I 0.1	I 0.0					
CLAD CON						I 0.1	I 0.1	I 0.0				I 0.1	
CLAD COR				I 0.1		II 0.1	I 0.1	I 0.0				I 0.1	
CLAD CRI		I 0.4					II 0.3	I 0.2				I 0.1	
CLAD DEF		II 1.0										I 0.1	
CLAD ECM									II 0.3			I 0.1	
CLAD FIM				I 0.0			I 0.2						
CLAD FUS													
CLAD GON		I 0.2		I 0.0			II 0.3						
CLAD GRA		I 0.2		I 0.1			IV 0.6	II 0.2				I 0.1	
CLAD MIT		II 0.6	III 0.5	I 0.2			V 10.1	II 0.4	V 1.0			II 0.2	
CLAD PHY							II 0.4	I 0.0					
CLAD PLE							I 0.1						
CLAD PYX													
CLAD RAN							I 0.2						
CLAD SPP													
CLAD SQU													
CLAD STE							I 0.2						
CLAD UNC													
CLEM OCC													
CLIM DEN													
CORA TRI													
CORN CAN				V 5.5	V 7.5	V 6.0	V 7.4	V 6.0	IV 1.3	IV 2.4	V 10.1		
CORN STO				II 0.2	II 1.5	II 2.9		V 5.9		I 1.9			
CORY COR													
CYPR PAS			III 3.5										
DACT ARC													
DANT CAL													

ECOSYSTEMATIC UNITS		MW	MW	BF	BF	BF	BF	BF	BF	BF	BF	BF	BF
		12	13	1	2	3	4	5	6	7	8	BU	1
SPECIES													
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE													
DCLP GLA				I 0.0	II 0.3	III 0.4						I 0.1	
DESC CES							I 0.1						
DICR ACU				I 0.2									
DICR BRE													
DICR FLA							I 0.1						I 0.1
DICR FRA							I 0.1						
DICR FUS				I 0.1									
DICR POL				I 0.2									
DICR SCO			III 2.0	I 0.2									
DICR SPP													
DICR UND													
DICR TRA				I 0.1	II 0.3	I 0.1							I 0.3
DRAB AUR													
DREP REV													
DREP UNC													
DREP OCT													
DREP CAR				I 0.2									
ELYM INN			V 1.0	II 0.3	III 1.5	I 0.7	III 0.7	III 0.9				II 2.6	III 0.9
EMPE NIG													I 0.2
EPIL ANG			V 1.0	IV 3.4	V 4.0	II 1.8	II 0.3	III 1.1				III 0.7	IV 2.2
EPIL CIT		I 0.2											
EPIL LAT													
EPIL PAL													
EQUI ARV		I 1.0		I 0.2	II 0.3	II 0.3							
EQUI HVE													
EQUI PRA		I 0.4											
EQUI SCI		I 0.2		II 0.5									
EQUI SYL		I 0.2		I 0.1									
ERIG HUM				III 0.7	III 0.8	II 0.9							
ERIG PER													
ERIG SPP													
ERIG VAG		II 0.6		I 0.8									
ERIO VIR													
EURH PUL			III 0.5		II 1.3	I 0.1							
EVER MES													
FEST SAX													
FRAG VIR		I 0.2	III 0.5	I 0.1	II 0.3	II 0.3		I 0.3				II 0.9	
GALI BOR													
GALI LAB		I 0.2	V 1.0										
GALI TRI													
GAUL HIS				I 0.2	III 0.8	II 0.3							
GENT AMA				I 0.1									
GENT CAL													
GENT GLA													
GENT PRO													
GENT PRP													
GEOC LIV													
GEOC LIV													

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ECOSYSTEMATIC UNITS	MW 12	MW 13	BF 1	BF 2	BF 3	BF 4	BF 5	BF 6	BF 7	BF 8	BU 1
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
PALU SOU			I 0.0			II 0.9	I 0.0		III 0.5		III 1.8
PARM ALE			I 0.0								
PARM AMB											
PARM CHL			I 0.0			II 0.9	I 0.0				II 1.7
PARM HYP			I 0.1		II 0.1		I 0.0				II 0.1
PARM SUL											
PARN FIM											
PARN PAL											
PEDI BRA											I 0.1
PEDI CAP									III 0.5		
PEDI LAB	I 0.4										
PEDI PAR											
PEDI SPP											
PELT APH				II 0.3		III 1.0	IV 1.4	IV 1.0		II 0.9	IV 1.2
PELT CAN				II 0.3		III 0.5					
PELT MAL					I 0.1	II 0.5	II 0.5	IV 1.0		I 0.3	II 0.4
PELT POL											
PENS PRO											
PETA PAL	I 0.2	III 0.5	III 1.2	V 2.0	V 3.3	II 0.8	III 0.7	IV 1.7		III 1.7	IV 2.2
PETA SAG	I 0.6										
PHLE COM											
PHYL EMP					I 0.1						
PHYS ADS											I 0.2
PICE ENE											
PICE ENG											
PICE GLA			III 0.7	II 2.3	V 30.6	I 0.2	II 0.3			V 27.9	III 0.8
PICE MAR			I 1.1		I 0.1	III 2.5	V 9.4	V 44.3		III 3.6	II 0.8
PINU BAN		V 22.5									
PINU CON		III 2.5	V 32.5		II 4.6	V 35.0	V 18.2	II 0.3		I 0.4	V 39.1
PLAD MED											
PLAG ARI											
PLAG CUS					I 0.1					I 0.1	
PLAG DRU					II 1.1				III 0.5	II 1.9	
PLAG ELL	II 1.4										
PLAG LAE			I 0.1	IV 2.5	I 0.1						
PLAG MED			I 0.1								
PLAT GLA			V 16.2	III 1.5	V 9.0	V 33.3	V 35.1	V 20.0		V 7.4	V 44.8
PLEU SCH		V 17.5									
POA ALP											
POA COM											
POA PAL											
POA PRA											
POHL NUT											
POLE PUL											
POLE SPP											
POLY COM											
POLY JUN											
POLY PIL											
POLY STR											
POLY VIV											
POPU BAL		III 2.5	II 1.1	III 10.0	II 1.4		I 0.1		III 1.0	I 0.1	III 2.7

ECOSYSTEMATIC UNITS		MW	MW	BF	1	BF	2	BF	3	BF	4	BF	5	BF	6	BF	7	BF	8	BF	9	
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE																						
SPECIES																						
POPU TRE		III	2.5	III	4.8	V.32.5	III	3.0	I	0.1	II	2.2							I	0.6	I	0.6
POTE DIV																						
POTE GRA																						
POTE HOO																						
POTE PAL																						
PRUN PEN																						
PRUN VIR																						
PTIL CIL																						
PTIL CRI		III	0.5	I	0.1	II	1.3	V	11.9	IV	5.0	I	0.1	I	0.0				V	16.4	V	17.9
PTIL PUL				I	0.8	I	0.1	I	0.1	I	0.1	I	0.0								I	0.1
PYLA POL																						
PYRO ASA		III	0.5	IV	1.8	IV	1.3	I	0.2	II	0.6								I	0.1	II	0.3
PYRO CHL				I	0.1			II	0.5										I	0.1	I	0.1
PYRO MIN																						
RAMA FAS				I	0.1																I	0.1
RAMA THR																						
RANU OCC																						
RHIZ GRA																						
RHIZ PSE																						
RHOD ALB																						
RHYT TRI																						
RIBE AME																						
RIBE HIR																						
RIBE INE	I	0.2																				
RIBE LAC				II	0.4	II	0.5	I	0.7										II	0.6	II	0.4
RIBE OXY				I	0.2			I	0.7													
RIBE SPP																						
RIBE TRI	I	0.2		I	0.2	II	0.3	I	0.7										I	0.1		
ROSA ACI				V	7.5	V	6.0	V	3.6	IV	1.5	V	3.1	IV	1.0				V	2.7	IV	1.8
RUBU ACU																			II	0.3		
RUBU ARC																			I	0.1		
RUBU CHA	II	0.6																	I	0.1		
RUBU IDA	II	1.8		III	4.0	II	0.3	III	1.0	I	0.3								I	0.1		
RUBU PAA																						
RUBU PAR				II	2.6	II	0.5	II	1.4													
RUBU PED				II	0.5	I	0.2	II	0.4													
RUBU PUB	III	0.5		I	0.2	V	4.3	V	3.7	II	0.6	II	1.0						V	2.7	II	0.4
RUBU STR																						
RUME ALP																						
SALI ARC																						
SALI ATH																						
SALI BAA																						
SALI BAR																						
SALI BEB																						
SALI CAN																						
SALI DIS																						
SALI DRU																						
SALI FAR																						
SALI GLA																						

[illegible]

ECOSYSTEMATIC UNITS		MW	MW	BF	BF	BF	BF	BF	BF	BF	BF	BU
		12	13	1	2	3	4	5	6	7	8	1
SPECIES												
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE												
SYMP ALB												
TARA OFF												
TETR ANG						I 0.1						
TETR MNI						I 0.1	I 0.5					
TETR PEL												
THAL OCC												
THAL VEN												
THAM SUB												
THUI ABI												
THUI REC												
TIAR TRI												
TIAR UNI												
TIAM AUS												
TOME NIT												
TONI COE												
TORT NOR												
TORT RUR												
TRIS SPI												
TRIT EXS												
TROL ALB												
USNE ALP												
USNE CAV												
USNE GLA												
USNE SCA												
USNE SOR												
USNE SPP												
USNE SUB												
VACC CAE												
VACC MEM												
VACC MYR												
VACC MYT												
VACC VIT												
VALE DIO												
VALE SIT												
VERA ESC												
VERO ALP												
VERO SER												
VIBU EDU												
VICI AME												
VIOL ADU												
VIOL CAN												
VIOL NEP												
VIOL ORB												
VIOL PAL												
VIOL REN												
VIOL RUG												
VIOL SPP												

[illegible]

III 1.3	I 0.2	II 2.2	V 7.5	I 1.4	III 0.5	II 0.3	V 2.0	IV 2.8
ABIE BAL		II 2.2	V 7.5	I 1.4				
ABIE LAS		II 1.8	II 1.8					
ACHI MIL	I 0.5							
ACON DEL								
ACTA RUB								
AGRO SCA								
AGRO TRA								
ALEC SAR								
ALNU CRI	V 19.2	III 1.8	I 0.8					
ALNU TEN								
AMBL SER								
AMEL ALN								
ANAS HEL								
ANDR POL								
ANEM LIT								
ANEM PAR								
ANTE MED								
ANTE MIC								
ANTE NEG								
ANTE RAC								
ANTE ROS								
ARAL NUD	I 1.2	I 1.4						
ARCT RUB								
ARCT UVA								
ARNI CHA								
ARNI COR	IV 1.2	IV 4.6	III 2.6	I 0.2				
ARNI LAT								
ARNI RYD								
ARTE NOR								
ASTE CIL	II 0.5							
ASTE CON	I 0.1	II 0.8	I 0.3					
ASTE HES								
ASTE LAE	I 0.1							
ASTE PUN								
ASTE SIB								
ASTE SPP								
ASTE SUB								
ASTE AME								
ASTR STR								
ATHY FIL								
AULA PAL	II 0.3	II 0.6		II 2.0	V 4.8	V 16.0	II 2.0	I 0.1
BARB HAT								
BARB LYC		I 0.1						I 0.0
BAZZ TRI								I 0.6
BETU GLA								
BETU OCC								
BETU PAP								
BETU PUM								
BETU SPP								
BETR VIR	I 0.2							

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
BRAC ALB											
BRAC CAM											
BRAC GRO											
BRAC HYL											
BRAC LEI											
BRAC MIL											
BRAC SAL		II 0.3									
BRAC SPP		I 1.2									
BRAC STA											
BROM INE											
BRYO CAP											
BRYO FRE		II 1.0									
BRYO FUR		II 0.7									
BRYO FUS		II 0.7									
BRYO SPP	I 0.1	I 0.8									
BRYO PSE											
CALA CAN	I 0.1	III 1.3									
CALA INE											
CALA SPP		II 0.3									
CALA STR	III 0.6	I 0.3	III 0.5								
CALL GIG											
CAMP HIS											
CAMP LAS											
CAMP ROT											
CAMP STE											
CARE ALB											
CARE AGU											
CARE BRU											
CARE CAP											
CARE CHO											
CARE CDC											
CARE CON											
CARE DIA											
CARE DIS											
CARE GYN											
CARE MAC											
CARE MIC											
CARE NIG											
CARE PAP											
CARE PAU											
CARE PEN											
CARE PRA											
CARE ROS											
CARE ROT											
CARE SCI											
CARE SIC											
CARE SPP											
CARE TEN											
CARE TOL											
CARE VAG											

ECOSYSTEMATIC UNITS										
BU	2	3	4	5	6	7	8	9	10	11
SA	1									
SPECIES										
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE										
CASS TET										V 1.5
CASS MIN										
CASS OCC										
CATO NIG									II 0.3	
CERA ARV										
CERA BEE										
CERA PUR										
CERA SPP										
CETR ARE					I 0.0					
CETR CHL										III 0.5
CETR CUC										
CETR ERI				I 0.1						
CETR HAL				IV 5.1	III 1.3	I 1.0				III 1.4
CETR ISL	I 0.1	III 2.5								III 0.5
CETR MER										I 0.1
CETR NIV										
CETR PIN	I 0.1	III 2.5		I 0.1	III 1.3		I 0.8			III 0.9
CLAD CAP										
CLAD GAR										I 0.0
CLAD CEN	I 0.1			I 0.1	II 0.1					I 0.1
CLAD CHL					II 0.2					I 0.1
CLAD COC										
CLAD COI										III 0.5
CLAD CON	I 0.1			II 0.2	I 0.1					I 0.1
CLAD COR	I 0.1	I 0.2		I 0.1	I 0.1					I 0.2
CLAD CRI						I 1.8				I 0.1
CLAD DEF	I 0.1					I 0.2				III 0.5
CLAD ECM	I 0.2				I 0.1					III 0.5
CLAD FIM										II 0.5
CLAD FUS										I 0.0
CLAD GON	I 0.1									II 0.3
CLAD GRA										
CLAD MIT	I 0.2	I 0.5			II 0.2	I 1.8	I 0.3			III 1.0
CLAD PHY	I 0.1				I 0.0	III 1.2				III 3.0
CLAD PLE										III 0.7
CLAD PYX										I 0.0
CLAD RAN										
CLAD SPP						II 0.8	I 0.2			III 0.5
CLAD SQU										I 0.0
CLAD STE	I 0.2					I 0.2				I 0.1
CLAD UNC										
CLEM OCC										I 0.0
GLIM DEN										I 0.1
CORA TRI									III 2.3	I 0.1
CORN CAN	V 7.0	V 5.5	V 8.8	I 0.2	I 0.1	V 7.4	III 1.2			III 2.0
CORN STO				V 10.2	V 7.4					I 0.0
CORY COR										V 5.2
CYPR PAS										
DACT ARC					I 0.1					
DANT CAL										

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
DLP GLA		I 0.3		I 0.6	II 0.3		I 0.2	II 0.3	V 2.5	III 0.5	I 2.0
DESC CES								II 0.7	II 0.3		I 0.0
DICR ACU	I 0.2										I 0.0
DICR BRE					I 0.0						I 0.0
DICR FLA											
DICR FRA						II 0.8					III 0.8
DICR FUS	I 0.1	I 0.3	II 0.8	III 0.6	II 0.3	II 0.8					III 0.5
DICR POL	I 0.6	II 0.3	II 0.3	I 0.4	I 0.2	III 0.6					I 0.3
DICR SCO	II 0.3	III 1.2		I 0.4	II 1.0	IV 1.2		II 0.7			II 0.4
DICR SPP											
DICR UND											
DISP TRA										III 1.0	I 0.0
DRAB AUR											
DREP REV											
DREP UNC			II 0.3								
DRYA DCT										III 0.5	
DRYO CAR			II 0.3								
-----											
ELVM INN	I 0.2	IV 4.5		II 1.6	III 1.2	II 0.4	II 1.0		III 1.0	V 10.5	I 0.1
EMPE NIG							II 0.7				II 2.5
EPIL ANG	II 1.4	V 6.5	IV 1.5	IV 3.8	IV 1.2	I 0.2			III 1.0		II 0.6
EPIL CIL											
EPIL LAT											
EPIL PAL											
EQU1 ARV		III 1.2		I 0.2	II 0.7		IV 8.7	II 0.3			I 0.1
EQU1 HVE											
EQU1 PRA				III 1.8	II 1.5	I 0.2					I 0.0
EQU1 SCI		I 0.2	II 0.3		II 0.4	II 0.4	V 1.8				I 0.0
EQU1 SYL		II 0.5	III 0.8	II 0.6	II 0.8	II 0.8	II 0.8				II 0.5
ERIG HUM											
ERIG PER											
ERIG SPP											
ERIO VAG											
ERIO VIR											
EURH PUL											
EVER MES					I 0.0						I 0.0
-----											
FEST SAX		II 0.8			III 0.8	I 0.2	I 0.2		V 2.0	V 1.0	
FRAG VIR											
-----											
GALI BOR											
GALI LAB											
GALI TRI		III 0.5	II 0.3		I 0.2	I 0.2	II 0.5		IV 1.5	III 0.5	
GAUL HIS								II 0.3			
GENT AMA					II 0.2	I 2.0	I 0.5				
GENT CAL									II 0.3		
GENT GLA											
GENT PRO											
GENT PRP											
GEOC LIV											
GEOL LIV											

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
SPECIES	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE										
GERA RIC					I 0.3 I 0.0						
GERA VIS									II 0.3 II 3.0		
GEUM ALE								IV 3.0	II 3.0		
GEUM RIV									II 4.5		
GEUM SPP											
GEUM TRI											
GLYC STR											
GOOD OBL											
GYMN DRY		I 1.7		III 7.4	I 3.2						I 0.6
HABA ORB											
HABA HYP											
HABA OBT		I 0.2									
HABA VIR											
HALE DEF											
HEDY ALP											
HELO BLA											
HERA LAN		II 2.2		II 2.0	II 1.2						
HIER ODO											
HIER TRI											
HIER UMB											
HYLO SPL											
HYPN PRA											
HYPO AUS											
HYPO BIT											
HYPO ENT											
HYPO PHY											
HYPO TUB											
ICMA ERI											
JAME AUT											
JUNC BAL											
JUNC DRU											
JUNI COM											
KALM POL											
KOBR MYO											
LARI LAR											
LATH OCH											
LATH VEN											
LECA RUB											
LEDU GRO											
LEPT REP											
LEPT PYR											
LETH VUL											
LILI PHI											
LINN BOR											
LIST BOR											

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
SPECIES	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE										
LIST COR	I 0.2				I 0.1						I 0.0
LOBA LIN											
LOBA PUL											
LONI DIO											
LONI INV	I 0.2	II 2.0		II 5.0	IV 4.0	I 1.2	IV 1.5				
LOPH BIN					I 0.0						
LOPH LON											
LOPH POR											
LOPH VEN											
LUPI SER											
LUZU PAR											
LUZU PIP											
LYCO ANN	IV 1.6		II 1.0	V 6.1	III 0.8	III 0.8				II 0.3	III 1.9
LYCO CLA											I 0.1
LYCO COM	II 1.2					I 1.4				III 0.5	
MAIA CAN		V 2.3	II 0.3	II 0.7	I 0.5						I 0.3
MELA LIN											
MELA UNE											
MENY TRI											
MENZ FER		I 0.2									
MERT PAN		IV 3.3		III 2.8	III 1.8	II 0.4	I 0.2	II 0.3	V 3.5	III 0.5	III 10.3
MINU BIF											
MINU OBT											
MITT NUD		IV 1.0	II 0.8	II 1.2	III 1.3	I 0.2	V 1.0	IV 1.0	II 0.5	II 0.8	I 0.1
MNIU AFF					I 0.1						
MNIU ARI											
MNIU SPI					I 0.1						
MOEH LAT											
MOHE UNI					I 0.2		I 0.2				
MYLI ANO											
MYOS ALP											
NEPH BEL											
NEPH EXP											
NEPH PAR											
OPLO HOR											
ORTH SEC	IV 0.7	I 0.2	III 0.5	IV 1.2	III 0.8	I 0.6	I 0.2				III 0.8
ORYZ ASP											
ORYZ EXI											
ORYZ SPE											
OSMO CHI	I 0.2				I 0.3						
OSMO DEP											
OSMO PUR				I 0.2							
QXVC MIC								III 1.3	IV 1.0		
QXYR DIG											
QXYT DEF											
QXYT POD											
QXYT SPL											

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PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE												
ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1	
SALI LUC												
SALI MEL							I 0.6	II 1.2	II 3.3	III 17.5		
SALI MYR								I 1.2				
SALI OCC								I 1.7	II 6.7			
SALI PED												
SALI PLA												
SALI PYR												
SALI RET												
SALI SCO	II 0.3	II 1.5	II 0.3	I 1.0	I 0.3		I 1.3			III 4.0	I 0.1	
SALI SPP												
SALI STO												
SAMB RAC												
SAXI TRI										II 1.0		
SCHI PUR												
SCIR CAE												
SELA SEL												
SENE IND												
SENE PAU												
SENE TRI												
SHEP ARG												
SHEP CAN												
SIBB PRO												
SILE ACA												
SMIL RAC												
SMIL STE	I 0.4			II 1.8	I 1.9					II 0.8		
SMIL TRI							III 1.2	IV 3.3		II 0.3		
SOLI CAN										III 0.5		
SOLI MUL												
SOLI NEM												
SOLI SPA												
SOLI SPP												
SORB SCO												
SPHA ANG	III 1.4	I 0.2		II 3.0	I 0.3						III 0.9	
SPHA FUS												
SPHA GIR												
SPHA MAG												
SPHA NEM												
SPHA RUS												
SPHA TER												
SPHA WAR												
SPIR BET	II 2.4	V 2.2	III 1.0	II 1.8	II 0.7					III 0.5	I 0.4	
SPIR ROM												
SPLA SPH												
STEL CAL												
STEL LOG												
STEL LON												
STEL MED												
STEN OCC												
STRE TOM												
STRE AMP	II 0.3	II 0.8		IV 6.2	III 1.2	II 2.0				III 1.0	I 0.1	
STRE ROS				III 7.8							III 1.6	I 0.1

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
SYMP ALB											
TARA OFF									II 0.3		
TETR ANG											
TETR MNI	I 0.1										I 0.0
TETR PEL				I 0.2	I 0.3				V 5.0		
THAL OCC											
THAL VEN											
THAM SUB											
THUI ABI											
THUI REC								II 0.3			
TIAR TRI					I 0.8						
TIAR UNI				II 2.6	I 0.4						
TIMM AUS				I 0.1							I 0.0
TOME NIT							V 9.7	IV 10.3	II 0.3		
TONI COE											
TORT NOR											
TORT RUR											
TRIS SPI											
TRIT EXS											
TROL ALB											I 0.0
USNE ALP	I 0.1			II 0.2	II 2.6						I 0.1
USNE CAV											
USNE GLA											
USNE SCA		II 1.7		II 0.5	I 0.7						I 0.8
USNE SOR	I 0.1	I 1.2		V 4.8	II 0.7	I 1.0					II 0.8
USNE SPP							I 2.5				I 0.2
USNE SUB	I 0.1	I 1.3		II 0.2	II 0.1						I 0.1
VACC CAE	I 2.0		II 0.3	I 0.6	II 1.8	IV 1.0	III 1.3		III 0.5	I 1.1	
VACC MEM	V 17.0	I 1.0	V 1.8	III 1.8	II 3.1	III 4.8			III 3.0	IV 8.7	
VACC MYR		III 2.0	II 0.6	II 0.6		III 1.6				II 1.9	
VACC MYT	I 2.0										
VACC VIT	II 0.6	I 0.2	II 0.5	I 0.2	I 0.4	V 5.2	V 2.5	IV 2.0	V 4.0	IV 3.0	
VALE DIO			II 0.3					II 0.3	III 2.0		
VALE SIT											
VERA ESC				II 1.2							III 0.9
VERO ALP		I 0.2									
VERO SER											
VIBU EDU	I 0.2	V 4.3	III 0.8	V 6.9	IV 2.3				III 2.0	III 2.5	
VICI AME											
VIOL ADU											
VIOL CAN					I 0.6						
VIOL NEP											
VIOL ORB				I 0.2		I 0.2	I 0.2				
VIOL PAL											
VIOL REN											
VIOL RUG		I 0.2	III 0.5								
VIOL SPP					I 0.2						

ECOSYSTEMATIC UNITS	BU 2	BU 3	BU 4	BU 5	BU 6	BU 7	BU 8	BU 9	BU 10	BU 11	SA 1
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## PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE

## SPECIES

ZYGA ELE

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A 1	MO 1
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
ABIE BAL	V 8.9	V 15.7	III 1.9	III 4.0	IV 13.3	I 0.3	II 0.4	V 1.7	III 0.5	I 0.2	III 1.0
ABIE LAS	I 0.1									IV 0.8	V 1.0
ACHI MIL											
ACON DEL	I 0.1										
ACTA RUB											
AGRO SCA											
AGRO TRA			I 0.1								
ALEC SAR			I 0.3								
ALNU CRI	II 1.9		I 0.3			III 6.0		I 0.4	IV 0.7	I 0.4	
ALNU TEN											
AMBL SER											
AMEL ALN											
ANAS HEL	I 0.1										
ANDR POL											
ANEM LIT											
ANEM PAR											
ANTE MED						II 0.3	I 0.3				
ANTE MIC									III 0.5		
ANTE NEG						II 0.3			III 0.5		
ANTE RAC						I 0.1					V 1.0
ANTE ROS											V 2.0
ARAL NUD											
ARCT RUB						II 4.4			V 15.5		V 40.0
ARCT UVA											
ARNI CHA											
ARNI COR	II 0.8		III 1.7	II 0.3	II 0.3	V 3.0	I 0.1				III 0.5
ARNI LAT	II 1.2	II 1.0	I 0.1		II 0.5	I 0.1				I 0.4	III 0.5
ARNI RYO	I 0.1		I 0.3								
ARTE NOR	II 0.3	II 0.3							III 0.5	V 7.4	V 5.5
ASTE CIL											
ASTE CON						II 3.6		II 1.3			
ASTE HES											
ASTE LAE	I 0.1										
ASTE PUN							I 0.1				
ASTE SIB									III 1.0		
ASTE SPP								II 0.3			
ASTE SUB											
ASTR AME											
ASTR STR									III 2.0		
ATHY FIL	I 0.1				II 3.3		V 15.3	IV 23.3		I 4.4	
AULA PAL											
BARB HAT											
BARB LYC		II 3.3									
BAZZ TRI	II 1.6	IV 25.0			II 3.3						
BETU GLA			II 1.9				V 17.4				III 0.5
BETU OCC											
BETU PAP											
BETU PUM	I 0.1										
BETU SPP											
BOTR VIR											

ECOSYSTEMATIC UNITS									
SA	SA	SA	SA	SA	SA	SA	SA	SA	MO
2	3	4	5	6	7	8	9	10	1
SPECIES									
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE									
BRAC ALB									II 1.0
BRAC CAM									I 0.2 III 1.0
BRAC GRO									
BRAC HYL									
BRAC LEI									
BRAC MIL									
BRAC SAL									
BRAC SPP									
BRAC STA									
BROM INE								II 0.3	
BRYO CAP	I 0.1								
BRYO FRE	I 0.6		I 1.0						
BRYO FUR									
BRYO FUS					I 0.1				
BRYO SPP	I 0.6								
BRYU PSE						I 0.1			I 0.2
CALA CAN	II 0.7		I 0.5	II 0.3	II 0.3	I 0.3	I 0.4	IV 1.0	III 0.5
CALA INE									
CALA SPP									
CALA STR	I 0.1		I 0.1		II 0.3	III 0.6	I 1.2		I 0.4
CALL GIG							I 0.3		
CAMP HIS									
CAMP LAS						I 0.1			V 1.5
CAMP ROT									
CAMP STE									
CARE ALB							I 0.1		I 0.2
CARE AQU									
CARE BRU							V 11.1	II 1.3	
CARE CAP							I 0.8		
CARE CHO							I 0.1		
CARE COC									
CARE CON		II 0.3							I 0.2
CARE DIA							I 0.1		I 0.2
CARE DIS									
CARE GYN							III 1.1		I 1.0
CARE MAC									
CARE MIC									
CARE NIG							II 1.8		
CARE PAP		II 2.0							
CARE PAU									
CARE PEN							II 0.9		I 0.2
CARE PRA									
CARE ROS									
CARE ROT						I 0.1			
CARE SCI									
CARE SIC									
CARE SPP									
CARE TEN									
CARE TOL						I 0.1	I 0.1	II 4.3	
CARE VAG		II 0.3					II 1.1		II 0.4

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A 1	MO 1
SPECIES											
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
CASS TET		V 19.7					I 0.1	I 0.1			V 2.0
CAST MIN											V 1.5
CAST OCC								I 0.1			
CATO NIG											
CERA ARV											
CERA BEE											
CERA PUR											
CERA SPP											
CETR ARE											
CETR CHL											
CETR CUC											
CETR ERI											
CETR HAL											
CETR ISL	II 0.6 I 0.1	II 0.3 II 0.3	I 0.3 I 0.1				I 0.1				III 1.5
CETR MER											
CETR NIV											
CETR PIN	II 0.6 I 0.1		I 0.3				I 0.1				
CLAD CAP											
CLAD CAR											
CLAD CEN	I 0.1				III 0.5 IV 0.8	I 0.1	I 0.1	I 0.1			III 1.0
CLAD CHL			II 0.3 I 0.1								III 1.5
CLAD COC											
CLAD COI											
CLAD CON	I 0.1	II 0.3	II 0.4				II 0.2				
CLAD COR	I 0.1		I 0.1		II 0.3	I 0.1	I 0.1			I 0.2	III 1.0
CLAD CRI	I 0.1		I 0.3		II 0.3						III 1.0
CLAD DEF	I 0.1				II 0.3 III 0.5		I 0.1				
CLAD ECM	II 2.0	V 4.7	II 0.4 I 0.1								
CLAD FIM											
CLAD FUS											
CLAD GON											
CLAD GRA	II 0.2 III 0.4	II 0.3	I 0.3 III 0.9	III 0.5			I 0.1 II 0.3	I 0.1			III 0.5
CLAD MIT	I 0.1										III 2.0
CLAD PHY											III 1.0
CLAD PLE											
CLAD PYX			I 0.1	II 0.3							
CLAD RAN			I 0.1	II 0.3							
CLAD SPP											
CLAD SQU		II 0.3	I 0.1								
CLAD STE											
CLAD UNC			I 0.1								
CLEM OCC											
CLIM DEN											
CORA TRI	I 0.1 V 2.9										
CORN CAN											
CORN STO											
CORY COR											
CYPR PAS											
DACT ARC											
DANT CAL									III 0.5		

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A	MO
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
DCLP GLA	I 0.1						II 0.8 IV 1.8	II 0.3 IV 13.3		I 0.2 I 0.4	
DESC CES											
DICR ACU							I 0.1 I 0.1				
DICR BRE		II 7.3									
DICR FLA	I 0.1										
DICR FRA											
DICR FUS	II 0.7		I 0.1		II 3.5	III 0.5					
DICR POL	III 2.7		I 1.2	III 0.5			I 0.3 I 0.6			I 0.2 I 5.6	
DICR SCO	II 7.7	V 14.3	III 1.8	III 1.0	IV 1.5	I 0.1					
DICR SPP											
DICR UND							I 0.1				
DISP TRA											
DRAB AUR							II 1.4 I 0.1			I 1.0 I 4.2	
DREP REV											
DREP UNC											
DRYA OCT	I 0.2										
DRYO CAR											
ELYM INN	II 0.8		I 0.1		II 0.3	V 3.6	I 0.3	II 0.7	V 3.5		V 6.0
EMPE NIG	III 1.3		III 2.2		III 1.3	I 0.9					
EPIL ANG	II 0.8		II 0.6		II 0.5	IV 3.3	II 0.4	IV 1.3	III 0.5		V 2.5
EPIL CIL											
EPIL LAT											
EPIL PAL											
EQUI ARV	I 0.1			II 0.3	III 1.5	I 0.1	I 0.1			II 0.8	
EQUI HYE							I 0.2 I 0.1			I 2.4	
EQUI PRA	II 3.1		I 0.1				I 0.1				
EQUI SGI											
EQUI SYL					IV 1.0		I 0.3			II 0.4	
ERIG HUM					III 1.3		I 0.4				
ERIG PER											
ERIG SPP											
ERIO VAG						I 0.1				I 0.4 II 0.4	V 2.0
ERIO VIR	I 0.6										
EURH PUL					II 0.3		I 0.1			III 1.5	
EVER MES											
FEST SAX	II 0.7				II 0.3		I 0.1	IV 1.0		III 0.5	
FRAG VIR										V 1.0	
GALI BOR	I 0.1										
GALI LAB											
GALI TRI	I 0.1						I 0.1 II 0.4	IV 1.0	III 0.5		
GAUL HIS				II 0.3			II 0.5				
GENT AMA											
GENT CAL											
GENT GLA		IV 0.7							III 0.5		V 1.0
GENT PRO										I 0.2 II 0.6	
GENT PRP									III 0.5	I 0.2	
GEOC LIV											
GEOL LIV											

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A 1	MO 1
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
GERA RIC											
GERA VIS											
GEUM ALE											
GEUM RIV	I 0.1										
GEUM SPP											
GEUM TRI											
GLYC STR											
GOOD OBL											
GYMN DRY			I 0.1								
HABA ORB											
HABE HYP											
HABE OBT											
HABE VIR											
HALE DEF											
HEDY ALP											
HEDY SUL											
HELO BLA											
HERA LAN											
HIER ODO											
HIER TRI		II 1.0									
HIER UMB											
HYLO SPL	IV 22.6		V 16.5	V 14.3	V 22.0	I 0.1 III 4.0	I 0.1 I 2.8				
HYPN PRA											
HYPO AUS											
HYPO BIT											
HYPO ENT											
HYPO PHY	II 1.1		I 0.3								
HYPO TUB											
ICMA ERI											
JAME AUT											
JUNC BAL											
JUNC DRU		II 0.7									
JUNI COM						I 1.0					
KALM POL											
KOBR MYO						I 0.1	I 0.3				
LARI LAR											
LATH OCH											
LATH VEN					II 0.5	II 0.6		II 1.0			
LECA RUB											
LEDU GRO	II 1.9		IV 19.1	V 25.0		I 1.0					
LEPI REP											
LEPT PYR											
LETH VUL											
LILI PHI											
LINN BOR	IV 3.3		III 1.7 I 0.1	V 1.0	III 1.0	V 3.3	I 0.3				
LIST BOR											

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A 1	MO 1
SPECIES	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE										
LIST COR	I 0.1	II 0.3			II 0.3						
LOBA LIN											
LOBA PUL											
LONI DIO											
LONI INV	II 0.8		I 0.3		II 3.8		I 0.1				
LOPH BIN											
LOPH LON											
LOPH POR			I 0.1								
LOPH VEN											
LUPI SER											
LUZU PAR	I 2.1	II 3.0				I 0.1	I 0.1	II 0.3		II 0.6	
LUZU PIP		IV 0.7								I 0.2	
LYCO ANN	III 0.5		IV 1.0								III 0.5
LYCO CLA											III 2.0
LYCO COM											
MAIA CAN	II 0.3					III 0.6					
MELA LIN							I 0.3				
MELA UNE											III 0.5
MENY TRI											
MENZ FER	II 3.0		I 0.5								
MERT PAN	II 0.2		I 0.1		II 1.0	III 0.7	II 0.9	II 0.7	III 0.5		
MINU BIF											
MINU OBT	II 1.6				IV 0.8		III 0.8			I 0.4	
MITE NUD							I 0.1				
MNIU AFF											
MNIU ARI											
MNIU SPI											
MOEH LAT										I 0.2	
MOHE UNI											
MYLI ANO	I 0.1										
MYOS ALP										IV 1.0	
NEPH BEL											
NEPH EXP										I 0.2	
NEPH PAR											
OPLO HOR											
ORTH SEC	V 1.1		II 0.7		IV 1.3	II 0.4	I 0.1				
ORYZ ASP											
ORYZ EXI											
ORYZ SPE											
OSMO CHI	I 0.2										
OSMO DEP											
OSMO PUR											
OSYC MIC											
OXYS DIG		II 0.7					I 0.3			I 1.8	
OXYS DEF										I 0.2	
OXYS POD									III 0.5		
OXYS SPL									V 3.5		

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PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A	MO 1
SPECIES											
PALU SQU	II 1.2		I 0.3				II 2.6				
PARM ALE											
PARM AMB									III 0.5		
PARM CHL	II 2.3		I 0.3			I 0.1					
PARM HYP	I 0.1					I 0.1					
PARM SUL											
PARM FIM							I 0.1				
PARM PAL											
PEDI BRA		II 0.3								II 0.4	
PEDI CAP										I 0.2	
PEDI LAB											
PEDI PAR											
PEDI SPP	I 0.1						I 0.1				
PELT APH	IV 3.2		IV 1.5	IV 1.8	IV 3.8	III 1.8	II 0.6			II 0.4	III 0.5
PELT CAN										III 1.0	III 1.0
PELT MAL	II 0.4	II 0.3	II 0.6	III 1.0	III 0.8	III 1.0	II 0.4	II 0.7		II 0.6	V 6.0
PELT POL											
PENS PRO							I 0.1				
PETA PAL	II 1.0	II 0.3	III 0.5	II 0.3	IV 1.5	I 0.1	I 0.2			I 1.4	
PETA SAG							II 0.8	II 0.3		II 0.6	
PHLE COM							I 0.1	IV 1.3			
PHYL EMP	II 2.4	V 8.0									
PHYS ADS											
PICE ENE	II 8.8		I 1.1		III 18.8	II 0.3	I 0.6				V 1.5
PICE ENG	III 6.1	IV 10.3			II 2.0						
PICE GLA	II 4.7		III 5.0	V 31.8	II 11.8	I 0.1	II 0.6				
PICE MAR											
PINU BAN											
PINU CON	IV 5.0		V 40.4	V 3.3	II 0.3	V 37.6	I 0.1				V 6.0
PLAD MED										I 0.2	
PLAG ARI											
PLAG CUS											
PLAG DRU											
PLAG ELL							II 1.4				
PLAG LAE								IV 2.3			
PLAG MED											
PLAT GLA						I 0.1					
PLEU SCH	V 22.4		V 33.5	V 55.0	V 14.8	IV 15.9	I 0.5			I 2.8	
POA ALP										III 1.8	
POA COM							I 0.1				
POA PAL											
POA PRA											
POHL NUT											
POLE PUL											
POLE SPP											
POLY COM		II 0.3				III 0.7	III 1.2	IV 3.7			
POLY JUN	III 0.6	II 1.0	III 1.0	II 0.3	III 2.5	III 1.1	II 1.4	II 0.7		II 1.8	III 0.5
POLY PIL										III 3.5	
POLY STR											
POLY VIV	I 0.1	II 0.3			II 0.3	II 0.4	III 0.4			IV 2.0	III 0.5
POPU BAL									III 5.0		

ECOSYSTEMATIC UNITS	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8	SA 9	SA 10	A 1	MO 1
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE											
SPECIES											
POPU TRE		II 0.3								IV 2.2	V 30.0
POTE DIV											
POTE GRA									III 1.0	I 0.4	
POTE HOO											
POTE PAL											
PRUN PEN											
PRUN VIR											
PTIL CIL											
PTIL CRI	IV 15.0		V 20.5	V 18.8	V 7.5	III 6.0					
PTIL PUL	I 0.1					I 0.1					
PYLA POL											
PYRO ASA	II 0.3		I 0.6		II 0.3	III 3.1					
PYRO CHL	I 0.1		I 0.1		II 0.3						
PYRO MIN							I 0.1				
RAMA FAS	I 0.1										
RAMA THR	I 0.1									I 0.2	
RANU OCC											
RHIZ GRA											
RHIZ PSE											
RHOD ALB	V 11.7		I 0.5								III 1.0
RHYT TRI											
RIBE AME											
RIBE HIR											
RIBE INE											
RIBE LAC	II 0.8										
RIBE OXY	II 0.2										
RIBE SPP											
RIBE TRI	II 0.4		I 0.1	III 0.8	II 0.8	IV 3.0					
ROSA ACI											
RUBU ACU											
RUBU ARC											
RUBU CHA											
RUBU IDA											
RUBU PAA											
RUBU PAR											
RUBU PED											
RUBU PUB	V 4.4		V 5.8	IV 1.0	II 0.3						
RUBU PUB	I 0.6		I 0.3		III 0.5						
RUBU STR											
RUME ALP		II 3.3						II 0.3		II 0.8	
SALI ARC										I 1.0	
SALI ATH											
SALI BAA										I 6.0	
SALI BAR										I 1.0	III 3.5
SALI BEB											
SALI CAN											
SALI DIS											
SALI DRU											
SALI FAR											
SALI GLA					II 0.5		II 4.9	IV 19.0		III 4.0	III 1.0

ECOSYSTEMATIC UNITS		SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	A	MO
		2	3	4	5	6	7	8	9	10	1	1		
SPECIES		PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE												
SALI LUC														
SALI MEL		I 0.8												
SALI MYR														
SALI OCC														
SALI PED														
SALI PLA														
SALI PYR				I 0.5										
SALI RET				I 0.2										
SALI SCO		I 0.1												
SALI SPP		I 0.2												
SALI STO				I 0.2										
SAMB RAC														
SAXI TRI														
SCHI PUR														
SCIR CAE														
SELA SEL														
SENE IND														
SENE PAU														
SENE TRI														
SHEP ARG														
SHEP CAN														
SIBB PRO														
SILE ACA														
SMIL RAC		I 0.1												
SMIL STE														
SMIL TRI														
SOLI CAN														
SOLI MUL														
SOLI NEM														
SOLI SPA														
SOLI SPP														
SORB SCO														
SPHA ANG														
SPHA FUS														
SPHA GIR														
SPHA MAG														
SPHA NEM														
SPHA RUS														
SPHA TER														
SPHA WAR														
SPIR BET														
SPIR ROM														
SPLA SPH														
STEL CAL														
STEL LOG														
STEL LON														
STEL MED														
STEN OCC														
STER TOM														
STRE AMP														
STRE ROS														

ECOSYSTEMATIC UNITS									
SA	SA	SA	SA	SA	SA	SA	SA	SA	MO
2	3	4	5	6	7	8	9	10	1
SPECIES									
SYMP ALB									
TARA OFF							II 0.3		
TETR ANG									
TETR MNI									
TETR PEL									
THAL OCC						I 0.3	II 1.0	II 2.0	
THAL VEN							III 1.0	I 0.4	III 1.0
THAM SUB									
THUI ABI									
THUI REC									
TIAR TRI									
TIAR UNI									
TIMM AUS									
TOME NIT									
TONI COE									
TORT NOR									
TORT RUR									
TRIS SPI									
TRIT EXS									
TROL ALB									
USNE ALP									
USNE CAV									
USNE GLA									
USNE SCA									
USNE SOR									
USNE SPP									
USNE SUB									
VACC CAE									
VACC MEM									
VACC MYR									
VACC MYT									
VACC VIT									
VALE DIO									
VALE SIT									
VERA ESC									
VERO ALP									
VERO SER									
VIBU EDU									
VICI AME									
VIOL ADU									
VIOL CAN									
VIOL NEP									
VIOL ORB									
VIOL PAL									
VIOL REN									
VIOL RUG									
VIOL SPP									

[illegible]

ECOSYSTEMATIC UNITS		MO 2	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE	
SPECIES				
ABIE BAL				
ABIE LAS				
ACHI MIL		III 0.9		
ACON DEL				
ACTA RUB		II 0.4		
AGRO SCA				
AGRO TRA				
ALEC SAR				
ALNU CRI				
ALNU TEN				
AMBL SER		I 0.0		
AMEL ALN		III 1.4		
ANAS HEL				
ANDR POL				
ANEM LIT				
ANEM PAR				
ANTE MED				
ANTE MIC				
ANTE NEG				
ANTE RAC				
ANTE ROS				
ARAL NUD				
ARCT RUB				
ARCT UVA				
ARNI CHA				
ARNI COR				
ARNI LAT				
ARNI RYD				
ARTE NOR				
ASTE CIL		V 1.5		
ASTE CON		IV 4.4		
ASTE HES				
ASTE LAE				
ASTE PUN				
ASTE SIB				
ASTE SPP				
ASTE SUB		I 0.6		
ASTR AME				
ASTR STR				
ATHY FIL				
AULA PAL				
BARB HAT				
BARB LYC				
BAZZ TRI				
BETU GLA				
BETU OCC				
BETU PAP				
BETU PUM				
BETU SPP				
BOIR VIR				

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ECOSYSTEMATIC UNITS		MO	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE	
SPECIES		2		
BRAC ALB				
BRAC CAM				
BRAC GRO				
BRAC HYL				
BRAC LEI				
BRAC MIL				
BRAC SAL		III 1.5		
BRAC SPP		I 0.0		
BRAC STA				
BROM INE				
BRYO CAP				
BRYO FRE				
BRYO FUR				
BRYO FUS		I 0.7		
BRYO SPP				
BRYU PSE				
CALA CAN		I 2.6		
CALA INE		I 1.4		
CALA SPP				
CALA STR		I 0.7		
CALL GIG				
CAMP HIS		I 0.0		
CAMP LAS				
CAMP ROT		I 0.1		
CAMP STE				
CARE ALB				
CARE AQU				
CARE BRU				
CARE CAP				
CARE CHO				
CARE COC				
CARE CON				
CARE DIA				
CARE DIS				
CARE GYN				
CARE MAC				
CARE MIC				
CARE NIG				
CARE PAP				
CARE PAU				
CARE PEN				
CARE PRA				
CARE ROS				
CARE ROT				
CARE SGI				
CARE SIC				
CARE SPP				
CARE TEN				
CARE TOL				
CARE VAG				

ECOSYSTEMATIC UNITS	MO 2	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE
SPECIES		
CASS TET		
CAST MIN	I 0.1	
CAST OCC		
CATO NIG		
CERA ARV	I 0.1	
CERA BEE		
CERA PUR		
CERA SPP		
CETR ARE		
CETR CHL		
CETR CUC		
CETR ERI		
CETR HAL		
CETR ISL		
CETR MER		
CETR NIV		
CETR PIN		
CLAD CAP		
CLAD CAR		
CLAD CEN		
CLAD CHL		
CLAD COC		
CLAD COI		
CLAD CON		
CLAD COR		
CLAD CRI		
CLAD DEF		
CLAD ECM		
CLAD FIM		
CLAD FUS		
CLAD GON		
CLAD GRA		
CLAD MIT		
CLAD PHY		
CLAD PLE		
CLAD PYX		
CLAD RAN		
CLAD SPP		
CLAD SOU		
CLAD STE		
CLAD UNC	I 0.0	
CLEM OCC		
CLIM DEN		
CORA TRI		
CORN CAN	II 1.1	
CORN STO		
CORY COR		
CYPR PAS		
DACT ARC		
DANT CAL		

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ECOSYSTEMATIC UNITS		MO	2
SPECIES		PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE	
DCLP GLA		IV	2.7
DESC CES			
DICR ACU			
DICR BRE			
DICR FLA			
DICR FRA			
DICR FUS			
DICR POL			
DICR SCO			
DICR SPP			
DICR UND			
DISP TRA		I	0.3
DRAB AUR		I	0.1
DREP REV			
DREP UNC		I	0.1
DRYA OCT			
DRYO CAR			
ELYM INN		IV	10.0
EMPE NIG			
EPIL ANG		V	9.8
EPIL CIL			
EPIL LAT			
EPIL PAL			
EQUI ARV		I	0.1
EQUI HYE			
EQUI PRA			
EQUI SCI			
EQUI SYL			
ERIG HUM			
ERIG PER			
ERIG SPP			
ERIO VAG			
ERIO VIR			
EURH PUL		III	2.0
EVER MES			
FEST SAX		V	3.3
FRAG VIR			
GALI BOR			
GALI LAB		IV	0.9
GALI TRI			
GAUL HIS			
GENT AMA		I	0.1
GENT CAL			
GENT GLA			
GENT PRO			
GENT PRP			
GEOC LIV			
GEOL LIV			

ECOSYSTEMATIC UNITS		MO
		2
SPECIES		PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE
GERA RIC		III 3.0
GERA VIS		
GEUM ALE		
GEUM RIV		
GEUM SPP		
GEUM TRI		
GLYC STR		
GOOD OBL		
GYMN DRY		
HABA ORB		
HABA HYP		
HABE OBT		
HABE VIR		
HALE DEF		
HEDY ALP		II 1.0
HEDY SUL		
HELO BLA		
HERA LAN		III 3.6
HIER ODO		
HIER TRI		
HIER UMB		
HYLO SPL		I 0.3
HYPN PRA		
HYPO AUS		
HYPO BIT		
HYPO ENT		
HYPO PHY		
HYPO TUB		
ICMA ERI		
JAME AUT		
JUNC BAL		
JUNC DRU		
JUNI COM		
KALM POL		
KOBR MYO		
LARI LAR		
LATH OCH		V 2.8
LATH VEN		I 0.4
LECA RUB		
LEDU GRO		I 0.1
LEPT REP		
LEPT PYR		
LETH VUL		
LILI PHI		
LINN BOR		II 1.1
LIST BOR		

ECOSYSTEMATIC UNITS		MO
		2
SPECIES		
PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE		
LIST COR		
LOBA LIN		
LOBA PUL		
LONI DIO	I 0.7	
LONI INV	I 2.1	
LOPH BIN		
LOPH LON		
LOPH POR		
LOPH VEN		
LUP1 SER		
LUZU PAR		
LUZU PIP		
LYCO ANN		
LYCO CLA		
LYCO COM		
MAIA CAN	I 0.1	
MELA LIN		
MELA UNE		
MENY TRI		
MENZ FER		
MERT PAN	III 4.6	
MINU BIF		
MINU OBT		
MITE NUD	II 0.3	
MNIU AFF		
MNIU ARI		
MNIU SPI		
MOEH LAT		
MONE UNI		
MYLI ANO		
MYOS ALP		
NEPH BEL		
NEPH EXP		
NEPH PAR		
OPLO HOR		
ORTH SEC		
ORYZ ASP		
ORYZ EXI		
ORYZ SPE		
OSMO CHI		
OSMO DEP		
OSMO PUR		
OXYC MIC		
OXYS DIG		
OXYS DEF		
OXYS POD		
OXYS SPL		

ECOSYSTEMATIC UNITS		MO	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE
SPECIES		2	
PALU SQU			
PARM ALE			
PARM AMB			
PARM CHL			
PARM HYP			
PARM SUL			
PARN FIM			
PARN PAL			
PEDI BRA			
PEDI CAP			
PEDI LAB			
PEDI PAR			
PEDI SPP			
PELT APH			
PELT CAN			
PELT MAL			
PELT POL			
PENS PRO			
PETA PAL		III 0.9	
PETA SAG			
PHLE COM			
PHYL EMP			
PHYS ADS			
PICE ENE			
PICE ENG			
PICE GLA		III 1.1	
PICE MAR		I 0.1	
PINU BAN			
PINU CON			
PLAD MED			
PLAG ARI			
PLAG CUS			
PLAG DRU			
PLAG ELL		I 0.1	
PLAG LAE			
PLAG MED		I 0.1	
PLAT GLA			
PLEU SCH		II 0.7	
POA ALP			
POA COM			
POA PAL			
POA PRA			
POHL NUT		I 0.1	
POLE PUL			
POLE SPP			
POLY COM			
POLY JUN			
POLY PIL		I 0.1	
POLY STR			
POLY VIV			
POPU BAL		II 1.9	

ECOSYSTEMATIC UNITS		MO
		2
SPECIES		PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE
POPU TRE		V 51.3
POTE DIV		
POTE GRA		
POTE HOO		
POTE PAL		
PRUN PEN		
PRUN VIR		
PTIL CIL		II 0.3
PTIL CRI		
PTIL PUL		
PYLA POL		I 0.0
PYRO ASA		IV 1.5
PYRO CHL		
PYRO MIN		
RAMA FAS		
RAMA THR		
RANU OCC		
RHIZ GRA		
RHIZ PSE		
RHOD ALB		
RHYT TRI		
RIBE AME		
RIBE HIR		
RIBE INE		I 0.3
RIBE LAC		
RIBE OXY		
RIBE SPP		
RIBE TRI		I 0.3
ROSA ACI		V 8.7
RUBU ACU		
RUBU ARC		I 0.1
RUBU CHA		
RUBU IDA		
RUBU PAA		I 1.0
RUBU PAR		
RUBU PED		
RUBU PUB		
RUBU STR		I 0.7
RUME ALP		
SALI ARC		I 2.1
SALI ATH		
SALI BAA		
SALI BEB		
SALI BEB		I 0.3
SALI CAN		
SALI DIS		
SALI DRU		
SALI FAR		
SALI GLA		II 1.5

ECOSYSTEMATIC UNITS		MO	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE	
		2		
SPECIES				
SALI LUC				
SALI MEL				
SALI MYR				
SALI OCC				
SALI PED				
SALI PLA				
SALI PYR				
SALI RET				
SALI SCO		I	1.0	
SALI SPP				
SALI STO				
SAMB RAC				
SAXI TRI				
SCHI PUR				
SCIR CAE				
SELA SEL				
SENE IND				
SENE PAU				
SENE TRI				
SHEP ARG				
SHEP CAN		III	1.0	
SIBB PRO				
SILE ACA				
SMIL RAC				
SMIL STE		III	1.5	
SMIL TRI				
SOLI CAN				
SOLI MUL				
SOLI NEM				
SOLI SPA				
SOLI SPP				
SORB SCO				
SPHA ANG				
SPHA FUS				
SPHA GIR				
SPHA MAG				
SPHA NEM				
SPHA RUS				
SPHA TER				
SPHA WAR				
SPIR BET		I	0.0	
SPIR ROM				
SPLA SPH				
STEL CAL				
STEL LOG				
STEL LON		I	0.3	
STEL MED				
STEN OCC				
STER TOM				
SIRE AMP				
SIRE ROS				

## SUMMARY VEGETATION TABLE

## RESOURCE INVENTORY

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ECOSYSTEMATIC UNITS		MO
		2
SPECIES	PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE	
SYMP ALB		
TARA OFF	I 0.1	
TETR ANG		
TETR MNI		
TETR PEL		
THAL OCC	I 1.1	
THAL VEN	IV 3.2	
THAM SUB		
THUI ABI		
THUI REC		
TIAR TRI		
TIAR UNI		
TIMM AUS		
TOME NIT		
TONI COE		
TORT NOR		
TORT RUR	I 0.0	
TRIS SPI		
TRIT EXS		
TROL ALB		
USNE ALP		
USNE CAV		
USNE GLA		
USNE SCA	I 0.7	
USNE SOR		
USNE SPP		
USNE SUB		
VACC CAE	II 1.3	
VACC MEM		
VACC MYR	I 0.1	
VACC MYT		
VACC VIT		
VALE DIO	I 0.3	
VALE SIT		
VERA ESC		
VERO ALP		
VERO SER		
VIBU EDU	I 0.1	
VICI AME	V 1.6	
VIOL ADU	I 0.1	
VIOL CAN	II 0.3	
VIOL NEP		
VIOL ORB		
VIOL PAL		
VIOL REN		
VIOL RUG		
VIOL SPP	I 0.1	

ECOSYSTEMATIC UNITS

MO  
2

SPECIES

PRESENCE CLASS AND MEAN SPECIES SIGNIFICANCE

ZYGA ELE







